

Manufacturers Record

Exponent of America



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Baltimore, Md.
NOVEMBER 8, 1928

And Now to Business.

While this issue of the Manufacturers Record is on the press, millions of voters in every part of America are depositing their ballots, and before this paper reaches its readers these votes will have decided who shall be President of the United States for the coming four years.

There has been entirely too much bitter denunciation and mud-slinging in this campaign, and we greatly regret that a very large part of it has been in the South and against a man who up to the time of his nomination had been held in the highest esteem by the people of the South as well as of other parts of the country, and against men and women of the highest character, who believed in following their convictions of duty regardless of party ties. Nevertheless, this contest has developed a wider interest in the responsibility of the suffrage than this country has ever had before. Our people had to a large extent become indifferent to the responsibility to vote. Millions had remained away from the polls because of this indifference, and other millions because, so far as the South was concerned, it was felt that it would always remain solidly Democratic.

That solidarity has been broken in so far as a great stirring of the people of the South to the responsibility of the ballot is concerned. Whatever may be the result as to whether individual Southern States have passed for the time being out of this solidarity or not, there has been an awakening throughout the South, a stirring of thought and discussion which will be of enormous value to that section. Diversity of thought is as essential as diversity of agriculture. There must be attrition of mind against mind to bring forth the best results and to give the broadest educational awakening to any people.

But now that the election is over, or will be before this issue reaches its readers, let the country as a whole turn to the development of business and to putting into business activities that enthusiasm which has been given to both sides in this political campaign. Upon business prosperity depends the ability of the country to advance its educational and religious activities. Without profits made in business, neither churches nor schools could be maintained. Without employment, laborers would suffer in idleness and this would mean the suffering of millions of others.

Let us, therefore, as a people—South, North, East and West—turn with renewed energy to the utilization of the boundless resources of this country, and carry forward the work of utilizing these resources in soil, in minerals, in timber, in electric power, so that all the people may find abundant employment and that prosperity may rule throughout the land.

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Manufacturers Record

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of the South and Southwest as the Nation's Greatest Material Asset

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"Always Be a 'Bull' On the United States."

ALWAYS be a 'bull' on the United States—that is, never let confidence in the fundamental opportunity, progressiveness and prosperity of the United States weaken for an instant, even in the stress of possible hard times. So spoke the late J. P. Morgan, many years ago.

In those days, the organization of the "billion-dollar Steel Trust" was considered the ultimate in industrial and financial achievement. The automobile was regarded as a toy or a luxury for the wealthy, without probability of ever becoming the poor man's recreation or necessity. The radio was not even a dream, and the airplane was a vision. But, "Always be a 'bull' on the United States," said Mr. Morgan. The beginning of great things is even now in sight.

The soundness of Mr. Morgan's advice has been demonstrated. Despite a world war into which the United States threw a million of its young men and billions of dollars and other treasure, the United States today is richer in every material way than the most sanguine prophet of a quarter-century ago would have ventured to forecast. In 1900, the estimated value of property in the United States was \$88,517,000,000; in 1925, it was \$348,442,000,000. From 1900 to 1920, capital invested in manufactures increased from \$8,975,000,000 to \$44,569,000,000, and the value of manufactured products from \$11,400,000,000 to \$62,700,000,000 in 1925. Farm products valued at \$4,700,000,000 in 1900 rose to \$16,400,000,000 in 1927. Between 1900 and 1927, bank resources increased from \$10,785,000,000 to \$68,132,000,000 and individual deposits from \$7,288,000,000 to \$51,132,000,000. Population was 75,994,000 in 1900, and 118,628,000 in 1927.

Further than this, the automobile has occasioned the upbuilding of a prodigious industry, involving the initiation and development of scores of other industries contributory to it, directly and indirectly. Development of the airplane has lifted aeronautics to the proportions of a major commercial enterprise. The radio now keeps millions of dollars at work in that and collateral industries, and the moving picture industry, in all its lines, may be put down as a multi-billion dollar activity. Indeed, scores of industries have sprung into being in the last 20 years, each in its way producing other industries or stimulating many industries long established.

The South has transformed itself into an industrial area

of wondrous wealth in agriculture and manufactures, in land and water commerce, in domestic trade and in exports and imports, in mines and gas fields and oil wells. Although its population has increased from 27,445,000 in 1900 to 40,175,000 in 1927, the South is 66.7 per cent native white of native parentage, with only 8 per cent of foreign stock as compared with 34.4 for the United States as a whole. The South is the American area in this nation of many races. In the quarter century beginning in 1900, property, true value, rose from \$17,900,000,000 to \$79,400,000,000, and the products of manufactures from \$1,564,000,000 to \$10,372,000,000. Banking resources increased from \$3,275,000,000 in 1910 to \$10,123,000,000 in 1927 and individual deposits from \$691,453,000 in 1900 to \$7,329,500,000 in 1927. Highway expenditures, only \$12,600,000 in 1904, were \$390,899,000 in 1927. So the record might be continued on many lines.

In a business survey as of October 1, based on 4000 answers to its questions, the National Association of Manufacturers finds:

"Present trade is reported favorable by more than 93 per cent of those reporting, of whom 17.3 per cent pronounce it excellent, 41.4 per cent good, 34.5 per cent fair, with 6.8 per cent calling it poor. In 1927, the percentage of favorable reports was 91.

"Even better are the expectations for winter trade, 94 per cent of the favorable replies viewing prospects as: Excellent, 14.3 per cent; good, 43 per cent; fair, 36.7 per cent. Only 6 per cent regard the outlook as poor. In 1927, 92 per cent registered a favorable outlook."

Going more into detail, the survey finds that in the textile industry the number of those reporting good winter prospects this year is 95 per cent, as compared with 89 per cent in 1927, "although inventories this year do not seem to have quite reached the mobility recorded last year." Among building supply concerns, "the outlook for winter business is regarded as favorable by only 15 per cent less than those reporting last year." On the whole, "present business, immediate trade prospects, inventories, employment conditions, the demand for labor, the wage scale paid and the degree of industrial peace enjoyed by industry all record an improvement over those of 1927, as far as this may be determined by a comparison of the analyses of the surveys of that year and the present year."

Thus, two conspicuous features stand out: First, the prosperity foundation of the United States is sound; second, financial experts, on the basis of actual research, and industrial leaders, on actual reports from 4000 sources, unite in belief that the future is bright.

"Always be a 'bull' on the United States," as Mr. Morgan so well put it.

A GLARING EXAMPLE OF THE RULE OF DEMAGOGUERY.

LO. CROSBY, one of the greatest business leaders that Mississippi has produced, a manufacturer of large interests who has given unstintingly of his time and money for the advancement of Mississippi and who was one of Mr. Hoover's leading co-workers in the flood situation, is to be congratulated, and the MANUFACTURERS RECORD would extend the same congratulation to L. J. Folse, the secretary of the Mississippi Development Board of which Mr. Crosby is president, and to all of the directors; and this congratulation is based not on the magnificent work they have done for the state of Mississippi for some years, but on having incurred the bitter enmity of Governor Bilbo of that state, for the simple reason that Mr. Crosby, a life-long Democrat, announced his determination to vote for Herbert Hoover.

To the Memphis Commercial Appeal and to the Times-Picayune of New Orleans, Governor Bilbo wrote one of the most scurrilous, billingsgate letters of a thousand words or more, which has ever come to our attention. Merely because Mr. Crosby, knowing Hoover's tremendous abilities as shown in his flood work, decided to vote for him, Governor Bilbo not only denounced him in this scurrilous letter—but we are surprised at any respectable paper publishing it—but he denounced the entire Mississippi Development Board, the secretary by name, and all of the directors. It is an infinite pity that a state so superbly blessed with natural advantages as Mississippi, and with so many splendid people, should have a Governor such as Bilbo who rattles in the gubernatorial chair.

A traveling correspondent of the MANUFACTURERS RECORD writes:

"A local newspaper became so enraged at Mr. Crosby's announcement of support for Hoover that it came out in an editorial, less than a week before the Mississippi State Board of Development's annual meeting, and demanded Mr. Crosby's resignation; but the fairmindedness of the people of Mississippi could not be better shown than by what happened when the directors of the organization, representing every part of the state, gathered for that meeting.

"State Senator J. J. McGraw, of Vaughan, Miss., walked into the room where the directors were meeting and interrupted proceedings long enough to look Mr. Crosby straight in the eye and say:

"I have just got up out of a sick bed and put my clothes on to come down here and tell you that, regardless of politics, regardless of demagogues, Mississippi wants you to continue to lead the constructive work you have been carrying on for so long."

A burst of applause swept the room and some moments later a resolution was offered by Director R. E. Kennington of Jackson expressing the appreciation of the directors for the constructive service Mr. Crosby had performed for the organization. The resolution was amended by Director Frank W. Foote of Hattiesburg to include "an expression of confidence and appreciation for the earnest, sincere and large service he has performed for the state as a whole." The great development leader then was lauded by many speakers.

FEDERAL TRADE COMMISSION AND COTTON SEED PRICES.

IN a letter received by the MANUFACTURERS RECORD some months ago, referring to the question of the price of cotton seed, it was said:

"Could any restriction be sillier than to prohibit millers—whose grist, a staple agricultural commodity, the cotton seed, has no open market and is not dealt in on any exchange—from publishing immediately and widely to the public, to themselves and to the sellers, what they are willing to pay for cotton seed and be restricted to announcing what they had paid for seed yesterday or last week? The bid and asking price for cotton, grain, stocks, as well as the sales,

can be instantly announced legally over the whole United States. For cotton seed they cannot. The Federal Trade Commission holds it illegal to do so."

This letter came from a very responsible authority on cotton seed and, therefore, the MANUFACTURERS RECORD submitted the matter to the Federal Trade Commission to ask why the bid prices on cotton seed could not be given. In reply we have a letter from M. Markham Flannery, Director, Trade Practice Conferences of the Federal Trade Commission, in which he writes:

"The Federal Trade Commission has not held that it is illegal to permit buyers of cotton seed to bid or quote prices they are willing to pay."

SALES CONFERENCE OF SOUTHERN MANUFACTURERS.

AN exchange of ideas on successful practices which have resulted in stimulating sales is the main object of the first annual Southern Manufacturers' Sales Conference, to be held in Atlanta on November 22. Chairman Preston S. Arkwright emphasizes the underlying thought, which is that the conference will present an opportunity to Southern executives to prove their sales experiences and through such collective action each of the individual companies represented and the industrial South generally will profit.

Business leaders recognized as far-seeing and successful executives have been secured as speakers. They will give their observations on the successful practices which have enabled their own companies and others to adjust profitably their distribution and marketing programs to the present day demands of the buying public. While the speakers have been primarily drawn from the South, the rest of the country is represented too, and Mr. Arkwright states that the willingness of the men selected to lead the discussion at the conference is shown in the fact that every speaker invited has accepted.

The conference will consider: The efficient use of salesmen's time, the co-ordination of sales and production, as well as the value of market analysis and research. Particular attention will be devoted to the use of style and design in industry as a means of speeding up sales.

It is urged upon all who have received invitations that they send in their acceptance cards so that proper arrangements may be made for the representatives who will be present.

THE VALUE OF WATERPROOFING IN BUILDING CONSTRUCTION.

THE people of the United States pay a heavy toll for their negligence in properly protecting against leakage and dampness in building construction. The damage done by water and moisture in unprotected buildings is enormous. Only in comparatively recent years has progress been made in developing waterproofing materials and methods of construction to protect buildings and their contents from water damage. Statistics are said to show that less than one-half of one per cent of the money spent in construction is expended for waterproofing and damp-proofing of buildings, with the result that many of them leak soon after completion thereby starting immediate deterioration of the structure.

Construction work throughout the United States has been on a large scale, the South particularly reporting a greater amount of building activity than in the previous year. Not only more building has been done, but construction generally has been on a higher plane, more refinements in design and greater variety of materials used. With the growth of industrial building more attention has been given to the question of permanence, and in furtherance of this subject more study has been given to the question of waterproofing in building construction. In writing off depreciation from year to year

on factory buildings or other business structures, anything that will tend to prolong the life of such structures is worthy of careful thought in the selection of materials and the manner of applying them. There is no way of definitely estimating the damage done to building contents because of leakage, but had the building in which they were housed been water-proofed the possible savings would have more than paid for the additional cost of construction.

A SOUTHERN WOMAN'S WONDERFUL WORK.

HONOR in its highest sense, because earned by constructive work to help the helpless and for the betterment of mankind, has been conferred on Miss Martha McChesney Berry of Rome, Ga., by "The Pictorial Review," which has awarded to her a prize of \$5000 for her activities in the Berry Schools at Mount Berry, Ga. The award is made annually to the American woman who, in the opinion of a standing committee, has made the most distinctive contribution of the year to the world of letters, arts, science or the social sciences. Incidentally, another Southern woman also has won the award, Mrs. Cora Wilson Stewart of Morehead, Ky., for her "Moonlight Schools" in the Southern mountains.

Riding into the Blue Ridge Mountains 27 years ago, it is related, Miss Berry was impressed by the splendid boys and girls of that section, but mourned "the waste of their lives in a region where illiteracy was commonplace and advantages were few and far between." She took two of the children to her home near Rome and soon became so interested in the work and its possibilities for good that she entered into it on a major scale. A dormitory was erected on her estate, and a small school building, and the number of her proteges increased to 10. Then, she adds:

"I went riding through the mountains, finding boys and girls as one might select curios or antiques. I thought I could teach them how to live. In summer, I brought them in from the mountains of Georgia, Tennessee and Alabama. In my mind, each one was tagged, as one might label a special plant."

And so from year to year, Miss Berry's work expanded, until now her schools house 1000 pupils and the waiting list runs to 3000, admission being sought for children of all social classes because of the gentle manners and fine training that mark the graduates. City children are not accepted, or those whose parents are able to pay for their education. No "hired help" is employed, but the boys and girls are taught the dignity of work, doing the laundry work, the cooking, the gardening and carpentry and other tasks of the school, under the guidance of about 100 teachers who have specialized along various lines. The girls weave and spin, and the young folks sing folksongs and dance old-time dances, such as the minuet and the lancers. Nursing becomes the favorite profession among the girls, but all become splendid cooks. And so Miss Berry has sent more than 7000 boys and girls into the world, of whom a goodly percentage have earned distinction in the arts and professions.

The courses in the Berry Schools include grammar, high school and two-year junior college work, and in addition to this scholastic training the pupils are instructed in forestry, cattle raising, sheep raising, care of orchards and many phases of agricultural and horticultural work. In her earnestness, Miss Berry invested all her own money in her great enterprise and the schools now are supported by voluntary contributions, running to about \$150,000 a year, while \$50,000 more is obtained from investments, and the Alumni Association gave the schools \$10,000 on the twenty-fifth anniversary.

Miss Berry also received the Roosevelt Memorial Association medal in 1925, the presentation being made by President Coolidge at the White House. No words or human honors can be devised which will fittingly reward Miss Berry for her work. Heaven has blessed it, and Heaven will bless her.

GENERAL GRANT'S VIEW AS TO THE SOUTH'S ABILITY TO SAVE THE NATION.

IN General Grant's day immigration was exceedingly small as compared with what it was up to the time of the passage of the law restricting immigration. For several years prior to that law we had been receiving from a million to a million and a quarter immigrants every year, largely from Southern Europe. But even with the small immigration of his day, General Grant, so his son Jesse wrote the MANUFACTURERS RECORD several years ago, regarded as a serious danger to the future of this country the immigration then in evidence, and said that if the country could be saved from this alien element then crowding to our shores, he believed it could be done only by the power of the Anglo-Saxonism of the South.

The question of changing our immigration laws has been widely discussed of late and it may therefore not be inappropriate to give some facts as to our foreign stock based on the census returns of 1920, the latest official figures. By foreign stock is meant those born abroad, or those born in this country of parents one or both of whom were born abroad.

Taking the country as a whole there were in 1920 36,398,958 of this foreign stock, or a total of 34.4 per cent of our population. Entirely omitting the South, 48.2 per cent of the white population of the country in 1920 was of foreign stock. Only 8 per cent was the average for the whole South. The East South-Central States had three per cent of foreign stock. The South Atlantic States six per cent; while Louisiana, Oklahoma, Texas and Missouri had 13.5 per cent, most of which was in Texas and Missouri.

In New England over 60 per cent of the population was of foreign stock; in the Middle Atlantic states over 53 per cent; in the East North-Central states 42 per cent; and in the West Central states and on the Pacific Coast about 44 per cent.

Of individual states Rhode Island led with 69 per cent of foreign stock, followed by Massachusetts with 66 per cent; Connecticut and North Dakota with 65 per cent; and Minnesota with 64 per cent. New York State had 62 per cent, New York City about 76 per cent, Wisconsin 59 per cent, New Jersey 58 per cent, Michigan 53 per cent and Illinois 50 per cent.

The lowest in the entire South was seven-tenths of one per cent in North Carolina.

Of the ten leading cities of the country nearly two-thirds of their aggregate population was of foreign stock.

Only about one-fifth of the population of New York City and Chicago was of native white ancestry, and about one-third of the population of Boston, Cleveland, Detroit, Buffalo, San Francisco, Milwaukee, Newark, Jersey City, New Haven, Providence, Hartford, St. Paul, Scranton, Paterson, New Bedford, Fall River, Lowell, Cambridge and Bridgeport was of native American ancestry.

While giving full credit to the splendid work that many of the aliens who have come to this country of recent years have done, and to many of their descendants, it must be borne in mind that a very large proportion of the immigration of the last 15 or 20 years has been from Southern Europe, where to a large extent the people enslaved for centuries by the arbitrary laws and conditions of these countries, have rushed from that condition to the wildest license in this country. They want no laws that interfere with their activities. Many of the worst criminals of Europe have transplanted themselves from Southern Europe to America. That element is opposed to any law that restricts its right to do as it pleases. Much of this foreign element has not yet been assimilated into American life, for the melting pot has sadly failed.

SOUTHERN LABOR HAS MUCH AT STAKE.

THE South may well be especially interested in the American Plan Open Shop Conference, to be held at Fort Wayne, Ind., November 15-17. Last February the annual meeting was held at Jacksonville, Fla., and was of reciprocal benefit to the South and to the organization. The cornerstone in the foundation of this open-shop movement is American personal liberty and American individual freedom. It is based on the American principle of freedom for every man and woman to seek work as he or she may choose, at such pay and under such conditions as may be acceptable to employe and employer.

In no part of the world does industrial and other labor enjoy more favorable conditions than in the South. The industrial towns established by companies in many lines for their workers and families are regarded in their way as the last word in American comfort, convenience and sanitation, offering exceptional recreational, educational and religious opportunities. Foreign employers and workers who have seen them have marveled, and visitors from other sections of the United States have been amazed.

Plus the extra compensation envelope of \$4.36, accepted as correct and fair by labor unions in controversies over wages North and South and by the Finance Committee of the United States Senate, the average weekly earning of the Southern textile mill worker is \$20.29, compared with \$19.63 in the North. And it seems safe to say that the same proportionate wage is paid in other industries in the South. Above all, men and women in the South work in the personal liberty and individual freedom of action established by the Constitution of the United States, and guaranteed to all who do not attempt to translate liberty and freedom into license.

Thus, the eyes of greed in organized labor circles turn to the South as a section which possibly can be used to the enrichment of demagogic leaders. Already, a movement is well under way, though largely in surreptitious fashion at present, to "organize" Southern labor, as demagogic leaders euphemistically describe "enslave." Secret meetings have been reported, from time to time, in various parts of the South, at which ways and means have been discussed to create a spirit of discontent in Southern labor circles and to stir Southern labor to mistaken wage and working demands. This movement goes farther than the element of organized labor; it includes, for instance, at least one university professor from the North, who has openly said he believes in keeping labor discontented. The plan of the outsiders is to work through such reputable organizations as they may lead, through displaced sympathy, to help in the work—the churches, the Y. M. C. A., the Y. W. C. A., women's organizations, civic organizations and other associations of high standing. It is an old trick, in which, unfortunately, well meaning persons often become unwitting and gullible dupes.

Southern labor, almost completely American as it is, must stand firm in its own defense and in defense of the women and children dependent on it for prosperity and happiness. The Southern employer has much at stake, but not one-tenth as much as has Southern labor itself. The South is a mighty bulwark in defense of the American open shop and the American open shop is equally a bulwark in defense of Southern labor.

LOVE THE LAND OF THEIR ADOPTION.

GIBBS & KRAMER, registered architects, of Winter Haven, Fla., in renewing their subscription to the MANUFACTURERS RECORD write:

"We are both from the North and have no connections below Mason and Dixon's line, but after several years' residence

love it like natives, and do not care ever to go back. More power to your good editor."

Thousands of men, natives of the North and West, have found homes in the South and glory in the privilege of living in that section. Messrs. Gibbs & Kramer selected for their home one of the most beautiful spots in Florida, for Winter Haven is a veritable Garden of Eden surrounded by a wonderfully rich and attractive country.

WONDERFUL VIRGINIA APPLES.

FROM James Collins of Hamilton, Va., a very worthy colored man, there has come to the editor of this paper a half-bushel basket of the most remarkable apples it has ever been our good fortune to see. They surpass in size and beauty any apples from the Pacific Coast that we have ever seen. They illustrate what Virginia can do in apple-growing, and we are strongly inclined to think that such apples as this would take the prize in any apple contest in America with every State in the Union represented.

"FUTURE FARMERS OF FLORIDA".

PRACTICAL work for the promotion of agriculture in Florida and for keeping "home" agricultural talent of the State has been started in the formation of a statewide organization of youths, under the name, "Future Farmers of Florida." Incorporation has been effected through the Secretary of State and the organization starts apparently on the right foot.

Composed of pupils in vocational agriculture in the high schools, and sponsored by the State's agricultural instructors, the corporation has this objective: "To promote vocational agriculture in high schools of Florida, create more interest in intelligent agricultural pursuits in the various counties of the State, create and nurture a love of country life, provide recreation and educational entertainment for students of vocational agriculture through state agricultural and athletic contests, vacation tours, father-and-son banquets and the like; promote thrift, afford a medium for co-operative marketing and buying, establish the confidence of the farm boy in himself and his work, promote scholarship and rural leadership, grant charters to and form local chapters of 'Future Farmers of Florida,' and prescribe the jurisdiction and powers of such local chapters."

The total land area of Florida is 35,111,040 acres, of which in 1925, 5,864,519 were in farms, 2,022,284 being in crop lands and 1,489,070 in pasture. Who shall say that there is not remaining a generous field for the Future Farmers of Florida to cultivate? And for their successors in generations to come.

"Keep Southern youth and maidenhood in the South" has long been a text on which the MANUFACTURERS RECORD has been enthusiastic. They are needed in the South for their own sakes, for the upbuilding of the South, and for the welfare of the Nation.

In turning to Southern agriculture, these youths are doing wisely. No argument is needed to prove that the South is the natural garden of the Nation, and for much of the world. And beyond that is the fact that farming in reasonable time will evolve into a profitable business industry. Already the transition from a precarious business venture to a stable national industry is under way on the farm. At last the country grasps the fact that on sound, profitable farming rests a main hope for prosperity in every possible group and circle of life in the United States. Never again will the farmer be subjected to the burden of a \$30,000,000,000 deflation; on the contrary, hereafter his welfare will be considered in the formulation of every national policy and in every legislative enactment.

Express Toll Roads Proposed to Meet Demand for Highway Transport Facilities.

By 1935 the United States will have on its highways and streets from 30,000,000 to 35,000,000 motor cars, buses, trucks and trailers, according to conservative estimates. Promoters of privately owned toll bridges have carefully watched America's automobile traffic increase, and have seized the opportunity for investment by erecting bridges and securing franchises for structures at strategic points on the highway system. Now privately owned toll roads are proposed between heavily populated centers and in areas where traffic on public highways is congested. The dominant idea is the establishment by private concerns of so-called express highways connecting big cities in as direct a line as possible and avoiding towns and cross roads. These would be operated as toll roads.

Active opposition to toll roads and severe limitation on toll bridges is urged by the National Automobile Chamber of Commerce, the American Association of State Highway Officials and other organizations. On the other hand, there are interests which feel that toll express highways will fill a special need and because of the service they would render in the way of permitting high speed with safety, that such projects are justified. However, advocates generally insist that such franchises be granted only with a recapture clause, permitting the state to take over the roads in a reasonable period, allowing the promoters a fair profit on their investment. The manner in which these roads are to be taken over deserves care and consideration, road builders point out, so that the state may acquire the road in a well-maintained condition and at a fair figure. It is, therefore, suggested that such construction be undertaken only under the supervision of the state highway commissions. Many road builders believe that by granting franchises to private companies for toll highways the highway building industry would be given new impetus, and perhaps economies in road building generally would result from the activities of such companies, who would demand the most efficient construction methods and the utmost in character of construction and workmanship to insure a highway which would stand up under heavy traffic with a minimum of repairs.

In acquiring rights of way, it is pointed out, private enterprises could go quietly about obtaining options at fair prices, whereas the state would have to give publicity to such an undertaking, with the result that prices would be boosted and politics might enter to the disadvantage of the state. Road companies would seek the most direct route consistent with cost of construction; curves would be eliminated in so far as possible; grades made easy, to insure speed and make for economy of operation; new methods of controlling high speed traffic would be worked out to facilitate the control of these roads throughout their length, in a manner similar to the control of railway trains; all grade intersections with highways or railways would be avoided by the construction either of overpasses or underpasses; delays due to the movement of cross traffic would be eliminated, since traffic would enter such highways at convenient points controlled by signals and watchmen.

Some road builders suggest that to grant franchises for

By CARROLL E. WILLIAMS.

Soon or late this country must decide whether it is to have toll roads on an extensive scale. Some highway builders of authority go so far as to say that it will not be a question of whether we are to have such toll roads, but simply a matter of who will build them—the state and counties or private enterprise. In view of the importance of the subject to the broadest development of the country, we are publishing in this issue some discussion of the problems involved. In subsequent issues we plan to publish views pro and con of highway builders, engineers, financiers and others familiar with the subject.—Editor MANUFACTURERS RECORD.

toll roads of the express highway type is better than our present practice of granting franchises to private concerns for bridges that are erected at strategic points connecting either county or state roads, for the latter investment is sound only because state or county has built improved highways leading to the structure. Franchises for the building of toll roads, say advocates of the plan, should only be granted where the road will connect cities or towns now

joined by county or state roads, and in no case should a franchise be granted to a company for a road that will make it necessary for the public to use such a highway exclusively.

It is declared that for the present toll roads would prove profitable only between big centers of population where the highway facilities are now inadequate. The Washington-Baltimore Boulevard situation is given by proponents of the plan as an example of a location where such an express highway would be justified. On holidays and Sundays it frequently requires three hours to cover the distance between the two cities, normally a run of one hour. It is felt that motorists would willingly pay a reasonable toll for the privilege of operating a car at a comparatively high speed over a super-highway between the two cities if it would mean a saving of time and assure maximum safety due to a thorough regulation and control of traffic and to in-built safety features of highway construction. On a recent holiday the road from Washington to Baltimore was so crowded that it required three hours to make the trip. In a five-mile stretch there were seven serious accidents, cars wrecked and occupants hurt, due to the overcrowded condition of the road.

In safety campaigns that have been undertaken, too little attention has been given to this cause of motor vehicle accidents, the overcrowded highway and the psychological effect on the average motorist of his inability to make a reasonable speed. For example, a line of 25 vehicles forms, due to congestion, and it is impossible to go forward at more than 15 miles an hour; also, it is necessary to come to a complete stop every two or three minutes. Some impatient driver makes a spurt for the head of the line; another driver from the opposite direction does the same thing; as a result of these moves crashes follow and it frequently happens that neither of the two drivers who caused the trouble figure in the smash-up. A nervous driver runs his car into a ditch in giving room for a passing vehicle, or a car with poor brakes jams into the car ahead of it. Therefore, argue advocates of the express highway plan, if the state does not provide better road facilities in and about congested areas, private enterprise should be permitted to go forward with such work and give to the users of highways the facilities they demand.

The states have already undertaken the building of toll bridges and are acquiring privately owned toll bridges with a view to making them free structures. Tennessee has started on a program involving the expenditure of \$11,500,000 for toll bridges. Arkansas is expending several million dollars for state owned toll bridges. Kentucky will sell \$25,000,000 in bonds this month to finance the erection of toll bridges and to acquire certain established privately owned structures. Tolls will be levied at these state-owned bridges until the

income is sufficient to amortize the bonds sold to finance their erection. Federal aid may now be applied to the construction of state-owned toll bridges on Federal highways in an amount up to one-half the total cost. This activity on the part of the states may serve to check in some measure the movement for privately owned toll bridges, but judging from the number of franchises already granted, hundreds of these structures will be erected in the future.

It is predicted that railroads will find it advantageous, in some instances at least, to abandon short lines and to remove the ties and rails and use the roadbed as a base for either a private motor road for the use of railroad-owned motor buses and trucks, or fence the right-of-way and operate as a toll road for all classes of motor vehicles.

The necessary construction of super, high-speed highways in the vicinity of the big cities in many states is going to claim a great part of the attention of road builders in the immediate future, and large sums of money will be needed for such highways—because of the cost of obtaining additional rights-of-way in built-up areas, and because such roads will have to be better built than roads formerly constructed. They will have to be wider, more heavily constructed, better drained, more carefully guarded, free from grade crossings, and in many cases free from highway intersections—to speed up the safe movement of traffic. Loop or by-pass routes will have to be built about big towns and cities to prevent traffic confusion due to congestion caused by the movement of through traffic in downtown areas. Due to increase in the speed limits and improvement in the design of motor vehicles and to greater use of highways for passenger and freight traffic, our main roads will have to be straightened, dangerous grades and curves eliminated, and otherwise modernized. Thus, the road builder will have a difficult task making over present highways and providing new outlets and inlets near fast-growing centers of population, so that it will be an opportune time to let private companies undertake the construction of express toll roads, declare advocates of the plan.

Opponents point out that the plan is not wise because it reverts to the old system which the country fought so long to abolish. They say that the sale of state and county road bonds might be impaired if private enterprise is permitted to construct projects that will compete with public roads for business. They contend that the state or county should issue additional bonds to cover such construction as is necessary to meet traffic demands, and that regardless of cost, the roads should be provided to keep pace with the growth of motor transportation. But the fact remains that highways are not being built fast enough, they are not being built strong enough, or wide enough, or in sufficient number and the roads we have are annually exacting a fearful toll in loss of life and property. Opponents of the plan contend that the state can get the necessary rights-of-way for new roads and additional land along existing roads to provide for widening as cheaply and as quickly as can private enterprises. It is declared that once such a group as proposes the building of toll roads gets hold of the privilege, its next step would be to block the construction of free public roads in order to force the use of toll highways. In all cases it is suggested that both toll roads and bridges should ultimately revert to the public, and all financial operations, as well as the administration of the enterprise, should be under the control of the state.

Indications are that the building of roads on private rights-of-way would mean a welcome reduction of fast and heavy vehicle traffic on the public highways.

"Superhighways of this character would be a good investment from the viewpoint of the automobile owner," according to Walter Parker, a widely known economist of New Orleans. "They would save him time and they would save

him real money on tires, wear and tear and on repair bills. Such roads would double the tire mileage and the life of the car. No automobile owner would hesitate to pay, say a cent a mile, for the privilege of using such highway in preference to using free, publicly built highways of less comfort and convenience. The contrast would equal that of a Pullman and a day coach."

TOLL PROJECTS JUSTIFIED ONLY WHEN PUBLIC FUNDS INADEQUATE.

Virginia Highway Commissioner Sees Free Movement of Motor Transport Hampered.

By H. G. SHIRLEY, Commissioner, Department of Highways, Richmond, Va.

The question of toll roads in this part of the country is not as pressing as it is in some of the more thickly populated northeastern sections and it will be some little time before traffic, except in certain localities, will be of such a volume as to demand separate roads for heavily loaded vehicles.

Roads for high speed, which would require the elimination of all grade crossings and intersecting roads, will come in the future, and not a distant future in the heavily populated areas, but this is quite some time off in the sparsely settled sections. At only a few points in this state and a number of others to the south and west, would such roads in the near future pay their upkeep and a reasonable income on the investment.

Toll bridges occupy a unique position, particularly where state or important highways lead up to them. Their earning power far exceeds all the calculation of experts and just where the economic line will be reached in the construction of such structures is a moot question.

The construction of toll bridges should be permitted only at such points where the local or state authorities have not funds available, or will not be available in a reasonable length of time, to erect such structures. In granting the right to erect, there should always be incorporated a recapture clause that after a certain date they could be taken over by the state or local authority and made free, at reproduction cost, plus 10 per cent for promotional and other engineering charges, as well as interest on money in bank during the actual construction period, less depreciation. The time limit before recapture should be made of sufficient length to allow the bridge company to make a reasonable profit and income on its investment.

However, wherever it is possible roads and bridges should be made free for public use. There is nothing that builds up a country faster than the free and cheap movement of traffic between centers of population and outlying districts. The cheaper this service can be made the greater the progress and wealth to the country as a whole.

When such need arises between centers of large population, whether for fast or heavy traffic, and cannot be provided free by the state or other public bodies, then it is my judgment toll roads are justifiable and should be encouraged. It would be very much better, however, when there is a sufficient need for a toll bridge or toll road, that the state or county issue certificates of indebtedness and build the road or bridge and charge toll on same until the bridge or road had paid for itself and then make it a free structure.

Laredo, Texas, Albert Martin, mayor, and Frank C. Heins, city engineer, awarded contract at \$186,000 to H. B. Zachry, Laredo, for laying 67,000 square yards of asphalt paving on concrete base.



PRIVATELY OWNED SILVER BRIDGE OF THE SUSPENSION TYPE, CONSTRUCTED OF EYE BARS, CONNECTING THE STATES OF WEST VIRGINIA AND OHIO. RAILROAD BRIDGE IN BACKGROUND.

Toll Bridges and Toll Roads.

GROWING VOLUME OF PRIVATE TOLL BRIDGE FRANCHISES ENDANGERS \$10,000,000,000 INVESTMENT IN PUBLIC HIGHWAYS, DECLARES MOTOR TRUCK BUILDER.

By A. J. BROSSAU, Chairman, Highway Committee, National Automobile Chamber of Commerce and President, Mack Trucks, Inc., New York.

Toll roads and toll bridges, companions of a by-gone day of covered wagons and covered bridges, have been making a strong attempt at a come-back.

During the first session of the Seventieth Congress there were 201 toll bridge bills introduced; of these 79 were proposed for public operation and 122 for private operation. The bridge bills finally approved numbered 90; of these 28 will be operated by the states or some political subdivision, and 62 by private agencies.

A survey of the toll bridge situation in the United States by the U. S. Bureau of Public Roads on the first of this year revealed that there were 233 operating toll bridges and 29 others in the process of construction. Of these bridges in operation, 42 were publicly owned; the remaining 191 were privately owned, 154 by toll bridge companies and 37 by railroad companies. It was learned that there was a total of 424 toll bridges either in operation, under construction, or contemplated for construction. Of this total, 217 or more than half are on the Federal Aid system. It is estimated that the total investment in the 233 bridges was approximately \$118,000,000, of which \$45,000,000 is publicly owned and \$73,000,000 privately owned. The investment in the 424 bridges is estimated at \$547,000,000. These figures mean that private interests have been able to erect a barrier at strategic points and that the public has contributed toward making the project successful by building improved roads to these bridges.

Most of the emphasis to date has been on the securing of franchises.

The financial returns from some of these private toll bridge operations have been so great that promoters have begun to ask: If toll bridges pay, why not toll roads?

Highway Engineers Lead Opposition.

Taking the lead in opposition to a policy of private franchises for either toll roads or toll bridges, the American Association of State Highway Officials, comprising the state highway engineers of the country, has had the support of the American Automobile Association and the National Automobile Chamber of Commerce.

Through the magazine "American Highways," published by the highway officials, they have sounded a warning against

further granting of toll bridge franchises to private individuals. In the October issue is printed a statement of Representative John J. Cochran, member of the House from Missouri, who has served notice that he will demand an investigation of the entire subject at the coming session of Congress. He says:

"Unless drastic action is taken by the Congress, toll bridges will dot the Federal Aid highways of the United States. * * *

"I serve notice now that no toll bridge bills, where the consent of Congress to construct is vested in private individuals or corporations, will be passed by the House at the next session of Congress if I can prevent it, until the present form has been revised and an investigation held by a committee of the House on the subject. I shall offer no objections to bills where the consent is given to a city, county or State, but I will object even though the officials of the city, county or State are named in the bill.

"The toll bridge must disappear from the public highway as did the old toll-gate."

The directors of the National Automobile Chamber of Commerce in two vigorous resolutions are very definitely on record in favor of a policy of free highways and bridges. They believe that toll roads should never be built for and operated by private interests; toll bridges should be so built and operated only as a last resort, when the State or other governmental agency is unable to finance the project. In that event there should be a strict supervision of costs, construction and operation, with a view to making the structure free to public use within the shortest possible time. The resolutions follow:

Toll Roads Resolution.

Voted by directors of National Automobile Chamber of Commerce, February 1, 1928.

Whereas: The free use of the public highway is a fundamental principle of government.

Whereas: Motor vehicle owners of the United States through special taxes are today largely meeting the costs of the construction of these highways, and

Whereas: So-called express highways are simply a step in the further improvement of our public highway system which will be found necessary in those localities where traffic is heavy and congestion great,

Be It Resolved: That the National Automobile Chamber of Commerce opposes any effort to place control of any part of the public highways in the hands of private promoters, and

Be It Further Resolved: That the National Automobile Chamber of Commerce emphatically supports the principle



BRIDGE OVER POTOMAC AT SHEPHERDSTOWN, MD.

Tolls were recently abolished on a bridge over the Susquehanna River, purchased in 1923 by the State of Maryland.



BRIDGE OVER CANNON BALL RIVER IN NORTH DAKOTA.

Typical of many bridges formerly in use in Florida and other Southern States.

that the public highways shall be kept forever free to the general public.

Toll Bridges Resolution.

Voted by directors of National Automobile Chamber of Commerce, March 2, 1927.

Whereas: The construction and maintenance of highways is a public task undertaken through funds contributed by taxpaying groups and particularly by the motor users of the country, and

Whereas: These funds are not always sufficient to permit of immediate construction of bridges made necessary by the growth in motor vehicle traffic:

Resolved: That wherever toll bridges become necessary these should be financed from public bond issues and should remain as toll bridges only until such time as the costs of the improvement have been defrayed, and should forever after be free to all, and

Be It Further Resolved:

That if public funds cannot be made available, the right to build and operate toll bridges should be granted to private parties only after a most careful and searching inquiry and with definite understandings that such franchises shall be limited in nature and shall continue only for such periods as will provide a reasonable return. Thereafter bridges shall become public property and be free to all. In all cases the construction and operation of such bridges should be under the control of state highway departments whose duty it shall be to see that the public interest shall be fully safeguarded.

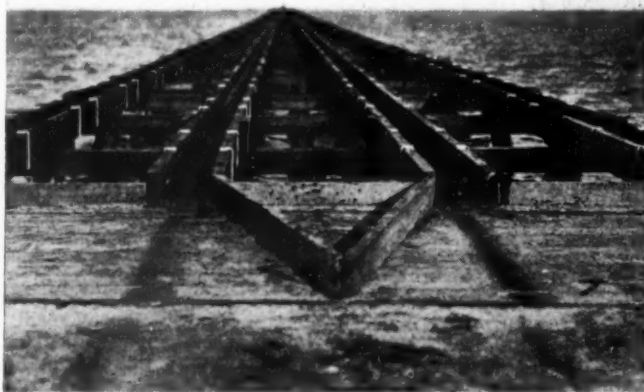
Toll Bridges Barriers at Strategic Points.

There is this fundamental difference between toll roads and toll bridges: The public must use the bridges, as they are invariably located at strategic points of heavy traffic where there is no optional route. Not so with the toll road, which would be simply an alternative highway.

One effect of toll road operation would be the return of an era of blue-sky securities comparable to the early days of railroad promotion. Whether as buyers of the securities or users of the road, the public stands to pay the bill, and a bigger one than under present procedure. The promoter would be sure of his percentage.

The success of a toll road would of necessity rest on the volume of traffic using the road. It has been suggested that a high speed toll route between New York and Boston is necessary in view of the heavy traffic on the Boston Post Road.

Government surveys, however, show that even were all the traffic of today and a generous allowance for future traffic forced onto a toll system, the return would not be high enough to carry the fixed charges made necessary by promotional costs, right of way payments, expensive con-



CAUSEWAY CONNECTING CORPUS CHRISTI, TEXAS, WITH THE MAINLAND.

struction, maintenance of toll gates, keepers and upkeep of the road.

Consider at the same time the irritation of the user at slowing down every few miles to render tribute, at going out of his way to get on the road in the first place, and his natural resentment at paying tolls when his special taxes for road construction and maintenance are already sufficient to meet the cost of the road he uses. From his standpoint the filling station is the toll gate today. Serious doubts of the practicability and advisability of the scheme in the public interest immediately arise.

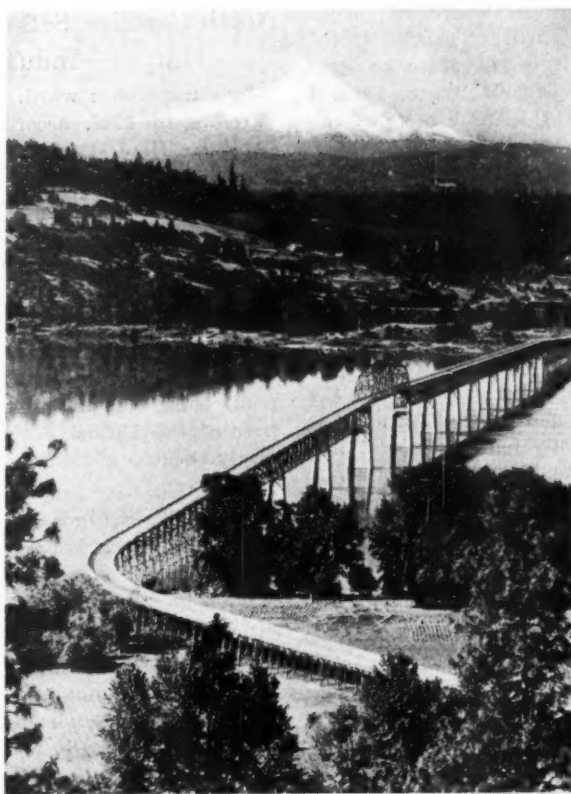
Average Passenger Trip Too Short to Benefit.

Would the motorist going but a few miles go much out of his way to use such a road? Government studies indicate the average passenger car trip at little more than 30 miles. Perhaps the long distance motorist would prefer the road, but such users are distinctly in the minority.

Would the truck operator, the man or establishment delivering goods a few miles out of town, or the farmer bringing his products into the city or rail station add to operating costs by paying toll for a doubtful saving in time?

Express Highways Should Be Public Not Private.

The sole argument advanced for toll roads is that the plan would facilitate the construction of express highways. The engineer answers this statement by saying that when and as traffic needs grow to a point which makes express highways desirable, the return to the public is so great as to justify public expenditure for improvement as a free highway. The



HOOD RIVER TOLL BRIDGE OVER COLUMBIA RIVER, BETWEEN OREGON AND WASHINGTON.

New Jersey road from Holland tunnel terminating at Elizabeth is an illustration.

A fair, impartial survey, should the Congress even consider it necessary to do more than consult history, would unquestionably indicate the unwisdom of embarking upon a policy of granting toll road franchises.

Private Franchises Should Be Safeguarded.

In those cases where the facility is seriously needed and where for one reason or another the community is unable to raise the necessary funds, then the private company should be required to accept conditions which will fully safeguard the public while receiving a fair profit. It should not be possible for a private company to obtain a franchise, let bids without competition, build without definite regulations or specifications and locate the bridge without regard for future traffic or requirements. All these safeguards can be accomplished by placing the operations under the full control of the State Highway Department. Further, instead of allowing private capital to acquire franchises which will run for a definite period of time before recapture provisions are even permitted, it should be understood that the bridge having been built under control should be subject to recapture when and as the returns from the revenue have provided the bridge company with a fair return on its investment.

Once acquired by the State or other public authority, the structure should remain free to the public as long as its operation continues.

The failure of Congress to require that franchises should



THE GREAT EADS BRIDGE ACROSS THE MISSISSIPPI AT ST. LOUIS.

only be granted for private toll bridges where and when sanctioned by the State Highway Department has led to the anomalous situation that whereas it is the State or local authority which must take the bridge over finally, the Federal government has declined to grant consideration to this body in the first instance.

In the proposal now before Congress, to amend the present conditions under which franchises are granted to private companies, Congressman Denison proposes to place the operation in the hands of the Interstate Commerce Commission. This body not only has no relationship to road use, but further has no funds nor personnel to take on work of this character. The sole agencies which should have jurisdiction in the granting of franchises and their operation are the War Department, whose interest is simply in maintaining the navigability of the stream, and the Department of Agriculture which is charged with the administration of Federal Aid construction in connection with state highway departments.

The Bureau of Public Roads and the State Highway Departments cannot be charged with the responsibility of providing the country with a sound, connected system of highways if the bridges, which are only links in the highway chain, are to be left to the jurisdiction of other agencies. The Burness bill now before the House Committee on Roads is designed to accomplish this purpose by lodging full authority, except for the War Department interest, in the State Highway Departments, with supervision by the Bureau of Public Roads where the Federal Aid system is concerned. Sound provisions are included in the bill as to supervision of construction, costs and tolls to be charged, with proper safeguards for a return of the property to the public at the earliest possible time.

It is becoming more apparent daily that the enactment of some such legislation is the only means by which the public interest in its \$10,000,000,000 investment in rural highways can be properly protected.

Sees No Need for Toll Roads.

By C. M. BABCOCK, Commissioner of Highways, St. Paul, Minn.

The subject of toll roads has not been given much consideration in our state. I do not believe there is occasion for the building of such roads either by the states or private capital, as I believe road matters in general throughout the United States are making very satisfactory progress under the system of State and Federal control now in use.

In most states it is presumed that the paying of license fees, and gas tax gives the motorist the use of all the public highways within the country, and it would seem that additional taxation would be imposed upon him if the state or others were permitted to build toll roads. No corporation would be likely to embark on such an enterprise unless it could be shown that excessive profits could be obtained, and this would mean that additional fees were being placed on motor transportation whether it be for pleasure or business purposes.

With reference to toll bridges, I believe there is in some states at least need for such structures, but the interests of the public should be fully safeguarded so that upon the return of the original investment and a reasonable profit to the promoters, the bridge should become the property of the public and be opened for use without further restrictions.

I am certain that the toll road proposition in this state would be extremely unpopular.

Florida County Offers \$250,000 School Bonds.

Tallahassee, Fla.—The Leon County Board of Public Instruction, F. S. Hartfield, secretary, receives bids until November 13 for the purchase of a \$250,000 bond issue of special tax school district No. 1. The bonds are a part of a \$500,000 issue authorized and will bear interest at 5 per cent.

North Carolina Sets New Mark in Building Stone Output—Industry Expanding in State.

Building stones worth \$4,967,542 were produced in North Carolina in 1927, according to figures compiled by State Geologist H. J. Bryson, Raleigh, in collaboration with the United States Bureau of Mines.

The value of these products the previous year was \$4,285,873, a gain for 1927 of \$671,660, making the latter the banner year in the history of the State.

Granite, the most important of this group, reached for last year a value of \$4,597,821, as compared with \$3,847,000 in 1926. This material came chiefly from Surry and Rowan counties with the names "Mt. Airy gray" and "Salisbury pink" being well known trade names throughout the eastern part of the United States. They are distinguished particularly because of uniformity of color and durability.

"The 'Mt. Airy gray' granite," says Geologist Bryson, "is to be used in the new Arlington Memorial bridge at Washington. Only recently a block of this granite was supplied for the memorial erected to the soldiers, sailors, and marines in Wisconsin." Further Mr. Bryson says:

"A \$300,000 contract was secured by a North Carolina company to supply stone for a new bridge near Philadelphia.

"The marble and limestone comes principally from Cherokee, McDowell, Henderson, and Madison counties in the western part of the state, while shellrock and marl come entirely from the eastern counties, especially New Hanover, Craven, and Jones. The production of these materials for 1927 was \$425,264, an increase of \$86,453 over the previous year.

"In the past year a great deal of activity has been shown in Cherokee and Madison counties. A new company has been organized in Cherokee to produce marble for building, tombstone, and crushed stone for construction work. Considerable core drilling was carried on which revealed a large supply of white, 'Confederate' gray, and the 'regal' blue.

"Gang saws, polishers, and other machinery is being installed to furnish stone for the various trades. It has been reported that two companies are installing small furnaces for the purpose of carrying on certain tests to extract the metal magnesium for the dolomitic marble and limestone. Theoretically, pure dolomite has been discovered at a number of localities in both Cherokee and Madison counties. If the process of extracting magnesium proves successful and economical, a very important industry will be added to the many already existing in this State. The metal magnesium will be used in competition with aluminum."

Contract for \$355,000 Amarillo Church.

Amarillo, Tex.—The First Baptist Church here has awarded contract to the W. G. Windsor Construction Company, Amarillo, for erecting its new church auditorium and educational building to cost about \$355,000 with mechanical equipment. The structure will be 204 by 123 feet, of brick, concrete and steel, with metal lath and tile partitions, terrazzo, cement and linoleum floors, and will be equipped with steam heat. The auditorium will have a seating capacity of 1500, while the educational building will accommodate 2700. Ferrand and Fitch, St. Louis, Mo., are the architects and the Guy A. Carlander Company, Amarillo, associate architect and construction supervisor.

An issue of \$2,600,000 Confederate pension notes has been sold by the State of Arkansas Note Board to a syndicate headed by Halsey, Stuart and Company, Chicago, at \$2,585,000.

\$15,000,000 Telephone Cable Factory for Baltimore.

WESTERN ELECTRIC CO. PLANS INITIAL UNIT FOR PRODUCTION OF CONDUCTOR WIRE.

According to an announcement by Edgar S. Bloom, president of the Western Electric Co., New York, a subsidiary of the American Telephone and Telegraph Company, a \$15,000,000 plant is to be constructed at Baltimore for the manufacture of telephone cable and wire. The company will acquire 125 acres of land facing the water front and extending from the Baltimore harbor to Colgate Creek, upon which it will construct the plant, beginning building operations as soon as title to the property has been conveyed.

The site for the plant was chosen, it is said, because of adequate rail and transportation facilities. Initial construction will embrace plant buildings and equipment for production of 110,000,000 conductor feet of cable weekly, the capacity being expressed in terms of the number of feet of wire in the finished cable. The unit is expected to be completed in the latter part of 1929 and approximately 1500 workers will be employed. This number will be increased as fast as new structures may be erected.

The building of the Baltimore plant is said to be in line with the company's expansion program as manufacturer for the Bell telephone system, to provide adequate facilities in advance of the growing needs of the system for equipment and materials. The Western Electric Co. now operates two main manufacturing plants—the Hawthorne Works at Chicago, said to be the largest plant of its kind in the world devoted to the manufacture of communication equipment, and a plant at Kearny, N. J. The former employs about 25,000 operatives and the latter 9000. It is stated that the establishment of a new manufacturing center at Baltimore will not limit the activities of the company's existing plants.

In addition to its manufacturing plants, the company has 33 branch distributing houses in many cities throughout the country, maintained at points accessible to the associated companies of the Bell system and from which nearly all telephone supplies are forwarded. The organization has two main functions, operating as a manufacturing organization for the production of all telephone equipment used by the Bell system and acting as the purchasing and distributing department of the same system. In the latter capacity it purchases in the open market most of the supplies required by the companies of the Bell system, and in 1927, with its subsidiary, the Graybar Electric Co., it purchased more than

\$1,000,000 worth of supplies in Baltimore and Maryland.

The company was one of the first American industries to provide a manufacturing base abroad. In 1882 it established a factory at Antwerp, Belgium, and in the following year installed the first multiple switchboard at Antwerp, said to be the first telephone exchange established in Europe. It built and installed the first telephone switchboard used in Japan, it is said, and set up the first common battery telephone exchange in China. During the World War, one of its first contributions to the Allied cause was the construction of a modern telephone system in France between the front line of the army and the sea coast, while the multiplex printing telegraph, a Western Electric development, played an important part in the Allies' communication system. Through the research of its engineers, the company produces a system of sound pictures and a system of sound projection, used by leading motion picture producers and exhibitors. It also developed the electrical method of recording now used by the Victor Talking Machine Co. and the Columbia Phonograph Co., and produced the "folded" wooden horn used on the Orthophonic victrola.

A hospital for use at the Hawthorne Works has been declared among the best equipped industrial hospitals in the country. Without cost to the workers, the company maintains a fund for pensioning employees of long service and provides financial protection for the sick and disabled. All employees receive disability in full for 13 weeks and other adjustments are made later. Death benefits are paid to dependent relatives. Athletic facilities include a gymnasium, track, baseball diamond, tennis courts, soccer field, indoor baseball diamond and a fully equipped rifle range. Extensive educational facilities for workers are also provided.

In this same connection it is interesting to note that at Mobile, Ala., a large plant for the manufacture of electric wires and cables is being erected by the General Cable Corp., New York, to supply the Southeastern territory. The corporation was organized in the fall of 1927 and purchased the plant of the Baltimore Copper Smelting and Refining Co., formerly owned by the American Smelting and Refining Co., New York; also plants of the Dudlo Manufacturing Corp., Fort Wayne, Ind.; the Rome Wire Corp., Rome, N. Y.; the Safety Cable Co., New York, and the Standard Underground Cable Co., Pittsburgh.



Plant of Western Electric Company at Kearny, N. J.—Typical of the \$15,000,000 Plant to Be Erected in Baltimore.

Mississippi's Statewide Program of Development Beginning to Bear Fruit.

Jackson, Miss., November 2.—[Special.]—Sweeping endorsement of Mississippi's statewide development program and the "constructive administration of President L. O. Crosby," featured the eighth annual meeting of the Mississippi State Board of Development recently held here. The meeting was further marked by discussion of Southern economic problems by national authorities.

The Mississippi State Board of Development is not a political organization and is not concerned with any man's politics, several speakers emphatically pointed out. Mr. Crosby, who has served as president of the organization for three years, was urged to offer himself for re-election. Officers will be named at a northeast Mississippi meeting of the board at Columbus, November 15.

Commercial development of the Mississippi river is necessary if the "extraordinary resources of the Mississippi Valley are to be developed as fully as they should," Lachlan Macleay, general manager of the Mississippi Valley Association, declared. "The national government some day will awaken to the importance of co-operating to this end and making possible the fullest development of the world's most important valley," he added. D. A. Skinner, executive secretary of the United States Chamber of Commerce, in discussing the businessman's responsibility, said: "The increasing danger is for the government to enter those fields in which it is more proper to carry on by private enterprise. We know that government operation,—federal, state or municipal—of business cannot be as efficient or as economical as by private industry."

With Mississippi timber being depleted at the rate of 30,000,000 feet a year, it is urgent that much thought be given to bringing new industries to the state, declared L. J. Folse, general manager, in his annual report. The report showed the development board's part in the state's dairying development, the fight for complete tick eradication, for minerals development, better highways and other constructive activities.

Response to the movement toward establishing The South, Inc., an organization proposed to bring more industries and more shipping southward, is "amazing and gratifying," declared P. E. Odell, vice-president of the Gulf, Mobile & Northern Railroad.

Mississippi has definitely broken with the one-crop system, it was pointed out by H. J. Schwieter, general development agent for the Illinois Central Railroad. J. O. Emerich, president of the Mississippi Press Association, gave an inspirational speech in which he emphasized the importance of the work of the state development leaders in "intensive, intelligent publicity to develop Mississippi's state personality."

An industrial roll call was an interesting feature of the meeting, approximately 25 representatives of Mississippi towns and cities appearing for brief speeches on the industrial and agricultural strides and future opportunities of their communities.

"Industrial progress is well under way in the South and with the remarkable growth of such cities as New Orleans, Memphis, Birmingham, Mobile and others, Mississippians are in the center of growing dairy markets," stated S. H. Anderson, general manager of the National Dairy Exposition. He prophesied splendid dairying development for the state if handled along sane and logical lines.

Thomas Bailey, speaker of the Mississippi House of Representatives, reviewed the part constructive legislation has played in the growth of new capital seeking business in Mississippi, stating that the state's favorable public policy

has "done as much as any other force to bring about this happy condition."

J. C. Holton, commissioner of agriculture, reviewed the state's dairying and general agricultural advancement and said that his department was co-operating to the fullest.

Architect for \$800,000 Dallas Y Building.

Dallas, Tex.—Anton F. Korn, a local architect, has been commissioned by the Young Men's Christian Association, Edward T. Moore, chairman of the building committee, to prepare plans for an \$800,000 central building on North Ervay street, near Federal street.

Bids on \$250,000 Washington School Annex.

Washington, D. C.—Plans have been completed by A. L. Harris, municipal architect, for a 10-room annex to the Francis junior high school at Twenty-fourth and N streets, northwest, and bids for construction will soon be invited. Among other facilities, the annex will contain a gymnasium and lunch room. An appropriation of \$250,000 has been made by Congress for the addition.

To Vote on \$2,000,000 Water Bonds.

Brownwood, Tex.—At a meeting of the city council, city planning commission, city charter commission and the water board of Brown County Improvement district No. 1, it was decided to hold an election in this city and Brown County on December 4 on a bond issue of \$2,000,000 to \$2,500,000 for building a dam on Pecan Bayou and Jim Ned Creek, about 9 miles north of Brownwood. It is thought that the construction of the proposed water project will be pushed in the event of a favorable vote on the bonds.

Architects for Four Government Buildings.

Washington, D. C.—The Treasury Department has commissioned architects for four federal buildings to be erected in the triangle north of the Mall, according to an announcement here. Plans for buildings for the Departments of Labor and Interstate Commerce will be prepared by Arthur Brown, Jr., of San Francisco, while Delano and Aldrich, of New York, will design a building for the Bureau of Independent Establishments, and Zantzinger, Borie and Medary, Philadelphia, a building for the Department of Justice. Edw. H. Bennett, Chicago, is the consulting architect for all structures to be erected under the Government's \$50,000,000 building program.

Contracts for 500-Mile Pipe Line in Texas.

The Atlantic Pipe Line Company, a subsidiary of the Atlantic Refining Company, Philadelphia, Pa., which is building a 500-mile pipe line from its tank farm at Midland, Texas, to its terminals at Atreco on the Gulf coast, has awarded the following contracts in connection with the project:

Motors and electrical equipment—General Electric Company, Schenectady, N. Y.
Pipe (10-inch)—National Tube Company, Pittsburgh, Pa.
Pumps—A. S. Cameron Steam Pump Works, New York.

Construction will involve 11 pump stations of the Gunité type, each 28 by 28 feet, at Midland, Garden City, Bronte, Talpa, Zephyr, Evant, Temple, Hearne, Shiro, Cleveland and Grayburg. The equipment will include two Cameron No. 6 HMT 5-stage centrifugal pipe line pumps direct connected to General Electric type KT 500 horsepower 1600 RPM, 2200-volt motors (type CR 1034 Form K-21 Korndorfer starters) in each station. A steel warehouse will be built at each station, together with a 10,000-barrel tank and three cottages. General construction is being handled by the Atlantic Pipe Line Company, with offices in Philadelphia and Dallas.

\$6,500,000 Dallas Reclamation Project Under Way.

CHANGING COURSE OF RIVER TO PROVIDE FOR FLOOD CONTROL, EXTENSION OF HIGHWAYS AND FOR INDUSTRIAL DEVELOPMENT OF LARGE ACREAGE.

[Special Correspondence Manufacturers Record.]

Dallas, Texas, November 3.

One of the country's largest reclamation projects is under way in this community. The Trinity River which flows through the geographical center of Dallas has ever been a serious handicap to the city's industrial growth; it has divided Dallas into a sharply defined west and east side, thus destroying the city's unity of interests; by its seasonal floods it has turned otherwise valuable property into stretches of waste land.

For many years the plan of civic promoters has been to divert the course of the Trinity, reclaim the land, link together the west and the east sides of the city by means of railroad and highway bridges across the river, and thus create a large new industrial center. In fact, 20 years ago, shortly after the great flood of the Trinity in 1908 caused so much devastation, this plan was put into concrete form. The obstacles, however, to such a huge and costly enterprise, were too many to be easily or quickly overcome, and it was not until July 24, 1928, that the sponsors of the undertaking saw the work actually started. On that date the first earth was excavated—a bite taken by the 5-yard bucket of a Monighan walking dragline; and today still larger bites are being taken out by a new dragline with a 6-yard bucket. Some 1000 persons witnessed the beginning of the work and celebrated the official opening of the project which will cost approximately \$6,500,000.

Trafficways to Be Extended.

Changing the course of the Trinity will make it possible to extend all the principal business streets on the west side of the river, on approximately their present grades, across the levee that marks the east channel of the river in its new location. A wide traffic boulevard will be built inside the east levee joining the principal thoroughfares on the south with intersecting streets all the way to the main arteries of the highway at the northwest edge of the city. This highway will permit the bypassing of cross-town traffic and its diversion east and west at various points along the river basin.

Flood Control Important Feature of Plan.

One of the important benefits to be derived from this project is the elimination of the

possibility of a recurrence of the 1908 flood. If no account were to be taken of the value of the project to the city and county in other ways, the removal of this flood menace would justify the money being spent, it is said.

To Complete Job in 700 Working Days.

Seven hundred working days is the time allotted for the completion of the reclamation and levee work. Considering the amount to be done the time is short: 15,000 acres of land now subject to overflow are to be reclaimed; the bed of the Trinity River will be moved to 15 miles of new channel and at one point the present and the new channel are five miles apart; 25 miles of 30-foot levee will be constructed and will provide, according to those in charge, for a rise of water two and a half times higher than that of 1908.

Walking Draglines Used on Project.

Monighan walking draglines, manufactured by the Monighan Manufacturing Corp., Chicago, are being used by the Trinityfarm Construction Company, Dallas and Waxahachie, to whom contract for the project was awarded. The walking traction was developed to make it possible for a dragline to work and move on soft surfaces without mats and timbering. This traction also makes it possible for the Monighan to make sharp turns or complete reversals by pivoting on its circular base, it is pointed out. The walking treads are entirely independent of this circular base and are held above the ground while the machine is working. They therefore cannot mire from the stresses and jars of operation and can be placed on fresh untrodden ground when the machine is ready to move, say the manufacturers. The circular base and walking platforms both have oversize bearing areas and the machine walks right out of soft places under its own power.

All the construction work is being handled by the Trinityfarm Construction Co., which has moved approximately 1,000,000 cubic yards to November 1. It has in use one 6-yard, two 5-yard and three 3-yard Monighan walking draglines, and proposes to install shortly a 24-inch suction dredge. In the next 90 days the company expects to start work on four major pumping plants.



WALKING DRAGLINE, WITH 6-YARD BUCKET.

Bids November 14 on \$900,000 School.

Beaumont, Tex.—The Beaumont Board of Education will open bids November 14 instead of November 12, as recently announced, for the erection of a \$900,000 high school in the Oaks Addition. The building will be 328 by 164 feet, of brick and stone construction with wood floors. F. W. Steinman & Son, Beaumont, are the architects, and Harry D. Payne, Houston, consulting architect.

\$239,000 Contract for Club Building.

New Orleans, La.—The Young Men's Gymnastic Club has awarded contract at \$239,100 to R. P. Farnsworth & Co., local contractors, for erecting a club building at 224 North Rampart street. The building will be two stories, 60 by 230 feet, of brick and steel construction, with pile foundation, composition roof and tile, terrazzo, rubber and wood floors. Diboll & Owen, New Orleans, are the architects.

Tulsa's \$4,000,000 Bank Building.

The new \$4,000,000 building in Tulsa, Okla., recently completed for the Exchange National Bank and the Exchange Trust Company, was formally opened coincidentally with the opening of the International Petroleum Exposition in Tulsa. The new building is 28 stories high, extending 300 feet between Third and Fourth streets on Boston avenue and having entrances on all three streets. The tower rises to a height of 390 feet, topping Tulsa's skyline, and is brilliantly lighted at night by a system of flood lights and lighthouse beacons designed to aid aviators.

The Exchange National Bank, the parent institution of the

Exchange Banks, will occupy a portion of the building, while the Exchange Trust Company will occupy a larger portion. The banking rooms are said to be among the finest in America, the structure being a full block long and from 90 to 140 feet wide. It was designed and construction started under the presidency of the late James J. McGraw and was completed under the administration of Harry H. Rogers who assumed the presidency of the Exchange National Bank following the death of Mr. McGraw. Mr. Rogers was already president of the Exchange Trust Company.

Plans for the structure were prepared by the Weary and Alford Company of Chicago, with Wm. H. Horster of Tulsa as building manager and superintendent of construction for the Exchange Building Company. F. H. Beaumont of Chicago represented the architects and F. F. Blair of Tulsa was assistant to Mr. Horster. Victor H. Cochrane, Tulsa, is the consulting engineer and Robt. W. Hunt Company, Chicago, material testing engineer. The following contracts were awarded:

Banking room decorations—Hartman and Seddig, Davenport, Iowa.
Barber shop equipment—Theo. A. Nochs Company, Chicago, and the Vitrolite Company, Kansas City, Mo.

Blinds—Mackin Venetian Blind Company, Chicago.

Book cases and vault equipment—Globe-Wernicke Company, Cincinnati.

Bronze and ornamental iron—Flour City Ornamental Iron Company, Minneapolis.

Building hardware—M. C. Hale Hardware Company, Tulsa.

Cabinet work and trim—Southern Mill and Manufacturing Company, Tulsa.

Cabinet work in banking room—Schick Johnson Company, Chicago.

Cage equipment—General Fireproofing Company, Youngstown, Ohio.

Cigar shop equipment—Patterson and Hoffman, Oklahoma City, Okla.

Cooling plant equipment—Brunswick-Kroeschell Company, Chicago.

Decorations in banking room—A. C. Rindskopf, Chicago.

Drapes and floor coverings—Brown-Dunkin Dry Goods Company, Tulsa.

Draperies—The Faber Studios, Tulsa.

Electrical wiring and equipment—Electric Supply Company, Tulsa.

Electrical time clock equipment—Nicholson Clock Company, Tulsa.

Elevator Entrance equipment—Paltridge Metal Equipment Company, Chicago.

Exterior and interior glass—Pittsburgh Plate Glass Company, Pittsburgh, Pa.

Exterior metal windows—Richey, Browne and Donald, Inc., Mass-peth, N. Y., and New York branch of Campbell Metal Window Corporation, Baltimore, Md.

Face brick—Hydraulic Press Brick Company, St. Louis, Mo.

Furniture—Stow & Davis Furniture Company, Grand Rapids, Mich.; Field Stationery Company and Tulsa Stationery Company, both of Tulsa.

Furring, Lathing and Plastering—Grier and Hynes, Tulsa.

General masonry work—S. M. Siesel Company, Milwaukee, Wis.

Granite—Maine and New Hampshire Corporation, North Jay, Maine.

Hollow metal trim—United Metal Products Company, Canton, Ohio.

Mail chute and box—Cutler Mail Chute Company, Rochester, N. Y.

Marble for lobby and banking room—Vermont Marble Company, Proctor, Vt.

Marble floors and wainscoting—Arnostti Marble Company, Carthage, Mo.

Mastic floor coverings—Thomas Moulding Floor Company, Chicago.

Paint—Cook Paint and Varnish Company and Hill Hubble and Company, both of Tulsa.

Plumbing and heating—Eureka Plumbing and Heating Company, Tulsa.

Revolving entrance doors—Atchison Revolving Door Company, Independence, Kan.

Sheet metal and ventilating—G. E. Looney, Tulsa.

Special light fixtures—Curtis Lighting, Inc., Chicago, Empire Chandelier Manufacturing Company, Sand Springs, Okla., and Mitchell-Vance Company, New York, and Victor S. Pearlman & Company, Chicago.

Special cabinet work—Matthews Brothers Manufacturing Company, Milwaukee.

Special structural steel and reinforcing—Patterson Steel Company, Tulsa.

Special transfer items—Red Ball Transfer Company, Tulsa.

Special equipment—Remington Rand Business Service, Inc., and Shaw-Walker Company, both Chicago.

Special models—Studio of Architectural Sculpture, Chicago.

Special directional signs—Viking Products Corporation, Chicago.

Steelcrete vault reinforcing—Consolidated Expanded Metal Company, Wheeling, W. Va.

Structural steel—McClintic-Marshall Company, Pittsburgh.

Structural steel erectors—Donovan Construction Company, St. Paul, Minn.

Terra cotta—Northwestern Terra Cotta Company, Chicago.

Toilet room floors—Bond Tile and Marble Company, Tulsa.

Tile walls and floors—Tulsa Marble and Tile Company.

Vault doors and vault equipment—Mosler Safe Company, Hamilton, Ohio.



28-STORY BUILDING RECENTLY COMPLETED.

\$1,000,000 Cotton Compress Completed at Memphis.

The Tri-State Compress Company's new plant near Hollywood, a suburb of Memphis, was recently completed at a cost of more than \$1,000,000. The modern warehouse, with a storage capacity of 80,000 bales of cotton, covers an area of 26 acres. The first building was erected in May, 1927, by the Kaucher-Hodges Construction Co.; the second structure was completed in September by Lee Wilson & Co., Wilson, Ark. A third building, to cost approximately \$500,000, may be erected by the company in the near future. Work on the completed unit began May 1, 1928. Compress unit No. 1 is a warehouse covering approximately nine acres. The building is 260 by 1295 feet, and is divided into nine compartments. The exterior walls are eight inches thick, of reinforced concrete, and about 13 feet high. Reinforced concrete fire walls

between the compartments are 12 inches thick and 16 feet high. The roof is of pitch and gravel on frame construction with column spacing 20 by 36 feet. The floors are 2-inch wood on cypress screeds imbedded in the ground. On each side of the building are covered concrete unloading docks, 22 feet wide. The work involved 6000 cubic yards of concrete, 2,500,000 feet of lumber, and 100 tons of steel.

George Mahan, Jr., Memphis, Tenn., was the supervising architect. Sub-contractors and material dealers under Lee Wilson & Co. included:

Roofing—Bartholomew Roofing Co., Memphis.
Sheet metal—Nohsey & Schwab, Memphis.
Steel—Pidgeon-Thomas Iron Co., Memphis.
Cement—Hermitage Portland Cement Co., Nashville.
Sand and gravel—Fischer Lime and Cement Co., Memphis.
Glazing—Binswanger & Co., Memphis.
Nails and reinforcing—Jones & Laughlin Steel Co., Pittsburgh.
Electric wiring—Dawkins Electric Co., Memphis.



PLANT OF TRI-STATE COMPRESS COMPANY, MEMPHIS, TENNESSEE.

\$1,625,735 for Telephone Extensions.

Washington, D. C.—Telephone extensions in the District of Columbia, Maryland, Virginia and West Virginia, recently authorized by the board of directors of the Chesapeake and Potomac Telephone Company, will involve an estimated expenditure of \$1,625,753. The proposed extensions will include additions to conduits, cables, pole lines, wires, switch-board equipment and telephone stations, an expenditure of \$339,135 being authorized for the District of Columbia, \$638,850 for Maryland, \$337,437 for Virginia and \$300,331 for West Virginia. Recent appropriations by the company for similar work this year bring the total to \$9,393,291.

Details of \$750,000 Oil Refinery.

New Orleans, La.—The Shreveport Oil & Refinery Co., a consolidation of the Shreveport Oil Co., the St. Bernard Oil Co. and the Jefferson Oil Co., has purchased a site in Jefferson Parish, a few hundred feet from the upper end of the city of New Orleans, for the construction of a \$750,000 oil refinery. The daily capacity of the plant will be 800 barrels, construc-

tion to begin within 30 days and to be completed within six months. The Graham Engineering Co., New Orleans, will supervise construction. Six hundred feet of harbor frontage has been arranged for the plant, the purpose of the company being to obtain its crude from a domestic field and export the refined product. The plant will consist of three common drum stills, a large double tower and smaller one, both for condensing purposes, and a cracking unit.

New Buildings for Birmingham Pipe Company.

Birmingham, Ala.—Plans have been prepared by and contract awarded to the H. K. Ferguson Co., Cleveland, Ohio, for erecting a large warehouse and shipping building and laboratory for the Stockham Pipe & Fitting Co., of this city. Construction will begin at once and is expected to be completed by January 1. The warehouse and shipping building will be 251 by 104 feet, two stories, to be equipped with freight and barrel elevators and a train shed for 10 cars. The laboratory will be 95 by 60 feet, one story. Plumbing, heating and wiring for the two buildings are included in the contract, as well as the construction of a concrete road.

Tampa's New High School.

The new East Side Senior High School, erected in Tampa at a cost of approximately \$1,000,000, was completed one month ahead of the contract date and is considered one of the South's finest school buildings, with ultra-modern facilities and provision for expansion as needed. General contract was executed by J. L. Crouse of Greensboro, N. C., and Tampa. In the preparation of plans for the school, an effort was made to anticipate future needs by the installation of equipment which would meet requirements for many years. The structure is of Collegiate Gothic design, the main building being 3 stories, containing 48 classrooms, 3 laboratories and cafeteria to accommodate 800 students. There is a science building west of the main section for teaching practical home arts, shower building and shops for branches of vocational training, including printing, mechanical drawing, electrical work, automobile work and woodworking.

There are two large study halls elaborately panelled and having rubber tile flooring, in addition to a library, librarian rooms, social halls, rest room and locker rooms. The auditorium has been treated as a theater with stage equipment, bowl-shaped floor and balcony, three tiers of dressing rooms at the rear of the stage and a projection room for moving picture equipment. Lighting facilities include disappearing footlights, 40 foot-border lights and stage lights, all wired for

three colors. The school is equipped with a private automatic telephone system of 97 phones which connect with every room, in addition to public telephones conveniently located. A master clock controls 43 secondary clocks located in the corridors, offices and various other rooms. It also controls a bell-ringing program clock which rings the classrooms, corridors and yard bells and silences bells on Sundays and holidays.

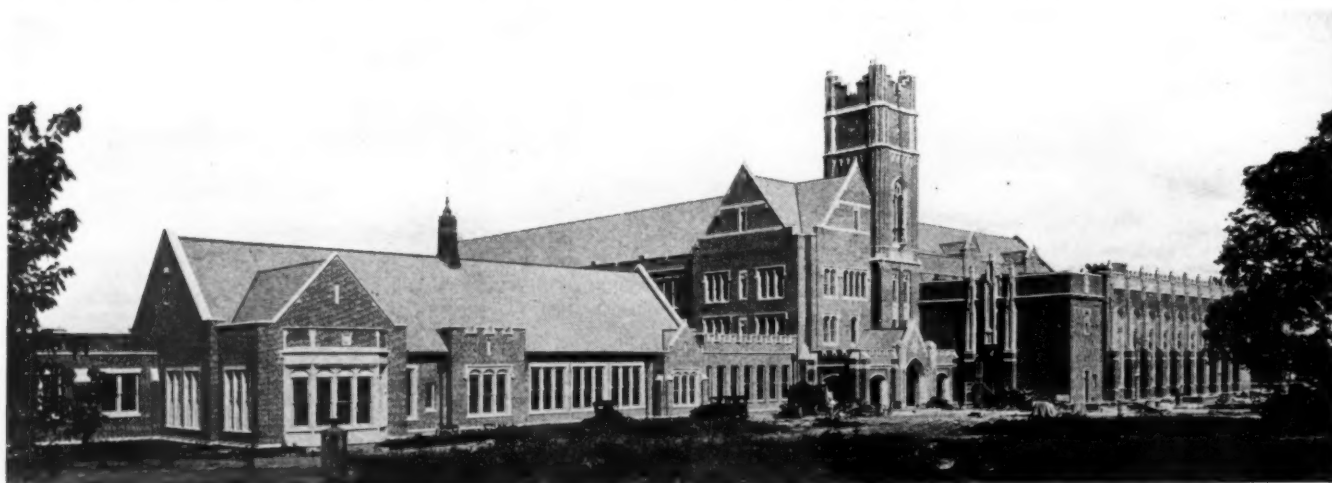
Plans for the structure, which is of brick, ornamental terra cotta and reinforced concrete with Barrett and slate roof, were prepared by Francis J. Kennard & Son of Tampa.

The following sub-contracts were awarded:

Electrical work—Monroe Electric Company, Tampa.
Granite—Greensboro Granite Company, Greensboro, N. C.
Metal tile—Goldsmith Metal Company, Cincinnati, Ohio.
Millwork—Updegraff Lumber Company, Manatee, Fla.
Ornamental Terra Cotta—Atlanta Terra Cotta Company, Atlanta, Ga.
Plumbing and heating—R. T. Joughlin and Company, Tampa.
Roofing and sheet metal work—North State Roofing Company, Tampa.
Structural steel, ornamental iron and metal windows—Tampa Shipbuilding and Engineering Company.

The following firms supplied furniture and equipment:

Union School Furnishing Company and American Seating Company, both of Chicago, through Jacksonville branches; Florida School Supply Company and Seminole School Supply Company, both of Tampa; Kewanee Manufacturing Company, Kewanee, Wis.; Theodore Kunditz Company, Cleveland, Ohio, and the Lyon Metallic Manufacturing Company of Aurora, Ill.



\$1,000,000 HIGH SCHOOL BUILDING COMPLETED AT TAMPA.

Southern Exports for Three Months.

In value of exports for the first three months of 1928, as reported by the Department of Commerce, three Southern States appear among the highest 10, in which New York was first, with \$210,041,771, and Texas second, with \$169,181,633. Louisiana took sixth place, with \$62,453,479, and Virginia tenth, with \$32,796,299. The total for the United States was \$1,174,814,565, to which the Southern States contributed \$397,576,810.

The exports of the other Southern States were: Maryland, \$20,930,396; Georgia, \$18,348,636; North Carolina, \$15,955,577; Missouri, \$12,261,045; Alabama, \$10,921,470; Mississippi, \$10,660,909; West Virginia, \$8,949,961; Tennessee, \$8,508,811; Arkansas, \$6,392,598; Florida, \$6,298,228; Kentucky, \$6,209,175; Oklahoma, \$4,641,339; South Carolina, \$3,066,284.

Twenty-six States and one Territory showed increases over the first quarter of 1927, New York heading the list with \$16,851,706, and three Southern States appearing among the first 11 in the amount of increase: Maryland, \$5,686,178; Louisiana, \$3,298,743, and Missouri, \$2,496,504. Alabama had an increase of \$451,147, others showing a decrease.

Work Ahead of Schedule on \$1,000,000 Hotel.

Little Rock, Ark.—Work on the new \$1,000,000 Albert Pike Hotel under construction here is more than 15 days ahead of schedule, according to the construction superintendent. Exterior concrete work is to be completed before November 10, it is said, and the installation of electric conduits and plumbing fixtures has been carried along with the interior work. The building is 12 stories, 140 by 225 feet, of reinforced concrete, brick and stone, with reinforced concrete foundation, cement, tile and marble floors and tile roof. It is being erected for the Farrell Hotel Company, according to plans and specifications by Eugene John Stern, Little Rock. W. J. Knight and Company, St. Louis, are the engineers and W. Frank Ault, Little Rock, general contractor. Other contracts have been awarded as follows:

Brick—Acme Brick Company, Little Rock.
Electrical work—Art Electric Company, Little Rock.
Heating—Eldorado Plumbing and Heating Company, Eldorado, Ark.
Millwork—Arkla Sash and Door Company, Little Rock.
Plastering—C. B. Humphries, Little Rock.
Roofing and sheet metal work—J. H. Hornbrook, Little Rock.
Stone—P. H. Scheid, Little Rock.

Industrial City for Calhoun Falls, S. C.

12,500 ACRES PURCHASED BY EASTERN AND NORTHERN INTERESTS ON SAVANNAH RIVER—
MODEL CENTER TO BE ESTABLISHED—VALUABLE WATER RIGHTS INCLUDED
IN PROPERTY PLANNED FOR DEVELOPMENT.

[Special Correspondence Manufacturers Record.]

Anderson, S. C., November 5.

This entire section of South Carolina, and adjacent communities in Georgia have been stirred to enthusiasm through the purchase by Northern and Eastern interests of the historic Calhoun estate for the establishment of an industrial city, and by the arrival of representatives to begin the work of transformation. Activity centers at Calhoun Falls, 30 miles south of Anderson and midway between Abbeville, S. C., and Elberton, Ga., each about 17 miles from the proposed model city, the former to the east and the latter due west.

The Calhoun estate is among the last of the great landed holdings which characterized this section in the early days. The tract embraces 20 square miles and boasts a gold mine from which more than \$1,000,000 was taken before it ceased to turn out "pay dirt" in commercial quantities. It is said now to be rich in clays suitable for brickmaking and other industrial purposes, in rare earths employed in paint manufacture, and in standing timber. Two railroads, the Seaboard Air Line, and the Charleston and Western Carolina, cross the property and miles of sidetrack are available. Through it sweeps the Savannah river, separating 10,000 acres on the Carolina side, where the industrial city is to be built, from more than 2500 acres on the Georgia side, which are being reserved for an all-year-round resort.

A beautiful concrete bridge was recently built across the Savannah in the very heart of the estate. It was designed for military purposes and is a memorial to the soldier dead in the recent war. Co-operation by the federal government, South Carolina and Georgia accomplished its construction. A large hotel, it is said, will be built in the hills west of the Georgia approach to the bridge.

Aggressiveness in campaigning, a large field force of economists and industrial authorities, and constructive co-operation are the factors through which it is expected the gravitation of industries to the Piedmont zone will be centered upon Calhoun Falls. A feature being emphasized is that industries considering this location will be freed from the financial burden of building villages and operating them at a loss. Calhoun Falls, Inc., has as its cardinal principle the absorption of all housing problems by providing homes of attractive character in surroundings of unusual charm, with a golf fairway in the rear of the homes, recreation grounds, swimming pools and similar features. This is no mere decorative incident in the plan, for its originators accord great sociological value to this phase of their activities and frankly declare they are anticipating future developments when this section will be called upon to meet labor conditions such as have upset industry in the North. They contend that agitators and disturbers cannot prevail in a contented and happy community whose people enjoy well rounded lives.

The property to be developed was formerly owned by Patrick Calhoun of Beaufort, S. C. After some three years of negotiations he has sold it to a syndicate of business and professional men, who are now engaged in pushing the development and who are creating several organizations for that purpose. Calhoun Falls, Inc., a holding company for the latter, was chartered in Delaware a few weeks ago with a capital of \$850,000.

The active head, through chairmanship of the executive board, is S. S. McClure, of New York, founder of McClure's Magazine and the McClure Newspaper Syndicate and widely

known lecturer on economic subjects. He has announced that he will devote himself exclusively to the development as the feature of his life's work. Philip Miner, a Cleveland realtor, is president of the organization; William Gray, a Chicago and St. Louis contractor, is first vice-president, and Robert Kratky, a civic leader and attorney of St. Louis, is second vice-president. William Evers, of Cleveland, for many years engineer of Cuyahoga County, Ohio, is engineer in charge of laying out and developing the new city. Social features, landscaping, fairways, recreation grounds, etc., which form the basis of the residential city, are in charge of Harrold D. Paddock, golf architect, Cleveland. Mr. Paddock has built famous golf courses in Chicago, St. Louis, Denver and other cities. He will employ the homelinks idea in Calhoun Falls, a copyrighted plan under which all homes face winding drives and back upon a golf fairway.

The residential development is to be made in units of a thousand acres, each of which when completed will link up with adjoining units of similar size and character. Only one unit will be developed at a time, and the first will be fully a mile from the present town. The latter boasts a fine cotton mill, which has been in operation about 20 years and which, since the announcement of the new development, has increased its capital stock to \$2,000,000, doubling its original capitalization, and declaring a 50 per cent stock dividend.

Because of the fact that an impending development of the Duke Power Co., of Charlotte, was responsible for breaking up and putting on the market the huge Calhoun estate and also for the entry of the Northern syndicate into this field, there is much conjecture as to the character and extent of relations between the big hydro-electric interests and those of Calhoun Falls, Inc., and also as to the intentions of the former. Calhoun Falls centers about valuable water power. Mr. Calhoun sold the Savannah river bed, his water rights and the surrounding terrain up to the 420-foot contour to the Duke interests. From that point the property on all sides passed to Calhoun Falls, Inc., whose plans contemplate the presence of a great artificial lake in their holdings and it is generally assumed hereabouts that a new and important power development is in near prospect, instead of the other alternative that the Duke interests are protecting themselves for a future supply when their present flow of power throughout the Piedmont Carolinas is absorbed.

In any event, a great stretch of fine property hitherto a sleepy symbol of ante-bellum days, given over to tenant cotton farmers and groves of stately silent pines, is astir with unprecedented excitement and a renaissance seems to be at hand.

Dallas Power Firm to Expend \$2,750,000.

Dallas, Tex.—The Dallas Power and Light Company has been authorized by the City Commission to enlarge its generating facilities at a cost of \$2,750,000. Improvements will involve the construction of another smokestack, new boiler room and other facilities and the installation of a new turbo-generator with a capacity of 25,000 kilowatts. The enlargement is being made to provide for the rapidly growing consumption of power for industrial, commercial and domestic use, according to John W. Everman, Supervisor of Public Utilities. The new generator with present equipment, will increase the capacity of the plant to 75,500 kilowatts.

\$100,000,000 TO ELECTRIFY PENNSYLVANIA LINES.

Program Will Cover 325 Miles of Line and 1300 Miles of Track.

Plans are being made by the Pennsylvania Railroad to electrify its system between New York and Wilmington, Del., and a portion of its main line west from Philadelphia to Atglen, Pa., at a cost of about \$100,000,000, according to a statement by President W. W. Atterbury. Its electrification program will cover 325 miles of line and about 1300 miles of track, it is said, besides the electrification of the low grade freight lines of the company which join at Columbia, Pa.

A period of seven or eight years will be required to carry out the program. Bids for the initial projects will be called within a few weeks. The company is said to be experimenting with an electric locomotive which will become the standard locomotive for the road. It is estimated that from 250 to 300 electric engines will be required within the next five years. It is intended to use alternating current, single phase system of electric traction similar to that now in use in the company's Philadelphia suburban service, because it is believed to be best adapted to heavy traction trunk line use. Engineers of the company have studied the system abroad and have been working on its development for a number of years. It is extensively used in Germany, Switzerland and Sweden, and in this country on the New Haven, Norfolk and Western and Virginian railways.

Multiple union cars will be used in suburban service, similar to those in the subways of New York and Philadelphia and on the Philadelphia suburban lines, as they are more desirable from the standpoint of rapid transit where frequent stops are made. Through freight and passenger service will be handled by electric locomotives. With the assistance of electric companies, the Pennsylvania Railroad has developed three types of electric locomotives, which, when used singly or in multiples, will provide any power demanded by size, weight of trains or speed, according to Mr. Atterbury. They have been designed to permit the maximum interchangeability of parts and the minimum cost of maintenance.

Summarizing the immediate factors influencing the company to proceed with its electrification program, Mr. Atterbury enumerates the following: Greater economy, growth of Southern passenger traffic, increasing density of both freight and passenger traffic on the company's eastern lines and probability of the requirement of a more rapid movement in the future, the desirability of building a locomotive to meet the requirements from the standpoint of weight of train, speed and reliability, and the possibility that the project, if started now, may be completed at a smaller expenditure than it would be if started later.

Details of Texas Railroad Construction Project— Waco, Beaumont, Trinity and Sabine Com- pany to Issue \$3,000,000 Bonds.

Plans of the Waco, Beaumont, Trinity and Sabine Railway Company, of Houston, Tex., which is building a 95-mile extension from Livingston to Port Arthur, and a 105-mile extension from Weldon to Waco, involve the construction of a line from Port Arthur to and through Beaumont, thence north to Elizabeth, from Elizabeth to Grayburg over trackage of the Gulf Coast Lines, thence north from Grayburg to Bragg and from Bragg to a connection with the company's existing line at Livingston in Polk County. The line from Livingston will be reconstructed and a new line built from Weldon through the towns of Midway, Normangee and Thornton to Mart, with trackage from Mart to East Waco and thence to Waco. The company's standard of construc-

tion calls for an 18-foot crown; No. 4 creosoted ties, and 75 or 80-pound relay rails, with 100 per cent tie plates. Engine terminals and shop facilities are planned for Beaumont and it is contemplated locating the main shops at Trinity. The Foundation Company, New York, has contract covering the entire construction.

Reports from Washington state that the Interstate Commerce Commission has granted authority to the Waco, Beaumont, Trinity and Sabine Railway Company to sell \$901,500 of its capital stock and to issue \$3,000,000 of first mortgage bonds to take care of existing obligations and to provide for the new construction.

Contractors Estimating on \$400,000 Y. M. C. A. Building.

Beaumont, Tex.—Bids will be opened November 19 for constructing a \$400,000 building here for the Young Men's Christian Association and not November 17 as previously announced. The following contractors are estimating: Christy-Dolph Construction Co., Central Contracting Co., Bellows-Maclay Construction Co., A. J. Rife Construction Co. and the Watson Co., all of Dallas; McDaniel Brothers, King-Huff Construction Co., Herman Weber, Charles F. Law and C. F. Myers, all of Beaumont; R. F. Ball Construction Co., Fort Worth; J. W. Zempter & Co., Galveston; Dougherty-Nichols-Young Co., Corpus Christi; Thomas M. Murray, Houston, and J. Dupuy, San Antonio.

The building will be of brick, reinforced concrete, steel and cast stone construction, four stories high. Tisdale, Stone & Pinson, Beaumont and Nashville, Tenn., are the architects.

\$25,000,000 Goodyear Plant May Be Built in the South.

Atlanta, Ga.—Officials of the Goodyear Tire & Rubber Co., Akron, Ohio, have visited the company's large tire fabric plant at Cedartown and several other Georgia cities, including Atlanta, Macon, Athens and Albany, in connection, it is rumored, with the proposed construction of a \$25,000,000 plant for the production of automobile tires. It is understood that a site across the Chattahoochee River in Cobb County, near Atlanta, has been under consideration by the Goodyear interests along with sites in other Georgia sections and in Alabama.

Furniture Association Officers Re-elected.

Greensboro, N. C., October 27—[Special.]—As the closing feature of its session here, the Southern Furniture Manufacturers Association re-elected T. A. Finch of Thomasville as president and also re-elected R. M. Simmons, Martinsville, Va., vice-president; J. G. Shelton, Statesville, vice-president; J. T. Ryan, High Point, secretary-treasurer; executive committee, in addition to those named, T. D. Gilliam, Statesville, R. N. Parker, Johnson City, Tenn.; C. E. Quinlin, Hazelwood; T. M. Brumby, Marietta, Ga.; J. E. Marsh, High Point; B. C. Vaughn, Galax, Va.

New Buildings for University of Tulsa.

Tulsa, Okla.—Plans are being prepared by H. C. Hibbs, Nashville, Tenn., for a new petroleum engineering building and a new library building for the University of Tulsa. Contract for the structures is expected to be awarded within a few weeks.

Texas Votes \$250,000 for Improvements.

Jacksonville, Tex.—Bonds in the amount of \$250,000 have been voted by Jacksonville for the following improvements: Erection of city hall, \$75,000; water and sewer expansions, \$75,000, and for additional paving, \$100,000.

How the Ozark Dairy Industry Contributes to the Prosperity of Springfield, Missouri

By TOM SHIRAS, Mountain Home, Ark.

The development of the dairy industry in the Ozarks has brought to that section its greatest prosperity and it has also been a factor in the growth of Springfield, "Queen City of the Ozarks," during the past eight years. In 1910 the late Fred Patton established a small creamery in Springfield, inaugurating the industry in this section. Today cream is trucked into Springfield over hard-surfaced roads that lead out into the mountain districts for a hundred miles; also it comes over every railroad. Last year nine modern creameries produced 15,000,000 pounds of butter, making Springfield the fourth city in the United States in butter production.

Operating in Springfield are: The Willow Springs Creamery Company, which last year completed a most modern plant; the Queen City Creamery; Springfield Creamery; Armour; Swift; Patton Creamery; Merchants Creamery and Producers Creamery. Brands of butter from these concerns are known in every large city in the East and the South. Among products of these plants are cheese, ice cream and condensed buttermilk, large quantities of the latter being used in the manufacture of hog and poultry feeds. Also small cheese factories are scattered over the territory in the smaller towns, and the Carnation Milk Company operates a big condensery at Verona, Mo., with an output of approximately 186,000 pounds daily during the peak milk production months in the spring and summer.

Forty creameries draw all or a part of their cream supply from the mountain country now, and the cream is going as far south as Memphis and north to Kansas City and St. Louis. The sour cream constitutes by far the long end of the production; it is utilized entirely by the creameries. A considerable volume of sweet cream is sent daily into St. Louis and Kansas City for household purposes. The total value of all dairy products produced in the Ozark territory, including cream shipped to creameries outside, now amounts to \$15,000,000 annually. Butter shipments for 1928 will show a substantial increase over the 962 carloads sent out from Springfield in 1927 in addition to 639 carloads of other dairy products.

Hog and poultry raising are closely allied with dairying, and both have shown large gains and kept pace with milk production. Skim milk, the by-product of the dairy farmer who sells cream to the creameries, is fed to hogs and chickens at a splendid profit. The growth of hog raising made a local market necessary, and the Springfield Stock Yards Company was organized several years ago. While small compared to the Kansas City, Omaha or East St. Louis yards, the business is showing a substantial increase. Last year the company handled some \$2,324,000 worth of livestock, chiefly hogs, although a considerable number of cattle, mules and milk cows were included. In the poultry industry thoroughbred chickens have replaced the scrubs and modern poultry houses now protect the flocks. Springfield, being centrally located in the territory, is one of the larger poultry concentration points in the West or South, and is credited with being the largest chicken and egg shipping point in the United States. Railroad estimates place the total value of poultry and eggs shipped from the Ozark territory in 1927 at \$20,000,000.

In the past three years an extensive acreage was planted to strawberries and grapes, due chiefly to the efforts of the agricultural departments of the Missouri Pacific, the Frisco and the Missouri and North Arkansas railroads. This year

some 43,000 acres of strawberries and 27,000 acres of grapes were in bearing, and several thousand carloads of these products were marketed. Also in 1927, 4500 cars of apples were moved from the territory.

The East is the best customer of the Ozarks for dairy and poultry products, although quite a tonnage moves South, New Orleans and other Southern cities being heavy consumers. The effect of this new revenue has been marked.

Springfield now has a population of 60,768 against 39,631 in 1920. Improvements in the city are even more noticeable than its population growth. Two viaducts, replacing hazardous railroad crossings and connecting the north and south parts of the city, have recently been completed at a cost of \$855,000. The \$500,000 Medical Arts building is nearing completion. Other new structures completed in the past three years are: A municipal airport, \$100,000; bus depot, \$85,000; Gilioz Theatre, \$250,000; Wilhoit building, \$250,000; Shrine Mosque, \$500,000; State Teachers College, \$1,000,000, and others representing smaller investments. The city does a good wholesale business, having some 60 jobbing houses. One hundred manufacturing plants are located in Springfield. Other plants manufacture wood and metal products. There are a number of grain milling and food product plants and several clothing factories. The Frisco shops and general offices employ 3000 people and the annual payroll amounts to \$6,000,000.

The Ozark Mountain section embraces some 100 counties in Arkansas, Missouri and Oklahoma, the two former states containing much the larger portion of the area. This \$15,000,000 now created annually by the dairy industry is practically all new revenue, and the development in all lines of industry in the Ozarks during the last decade has been greater than that in a half century before. The effect can be seen in the beautiful new residence additions on the outskirts of Springfield and all the way down deep into the mountain section. Thoroughbred milk cows grazing on fine pastures have replaced the mongrels. Modern farm homes have replaced the log houses, and wire fences have supplanted the picturesque rail fences. Nearly every mountain farmer drives his own car, and the women folk demand silk stockings. A mantle of prosperity seems gradually to be settling down over the Ozark Mountains and for this the cow is largely responsible.

To Develop Aviation Transportation in New Orleans.

New Orleans, La.—For the purpose of developing aviation transportation possibilities in New Orleans, the Gulf Air Lines has organized with an authorized capital stock of 100,000 shares of no par value stock. George Williams, of Watson, Williams & Co., is temporary president. The new company has purchased the St. Tammany-Gulf Coast Airways, Inc., operating a mail line from New Orleans to Atlanta and holding contract to operate a mail line to the Mexican border. The latter company will continue to function as a subsidiary of the Gulf Air Lines, which is now offering 45,000 shares of stock at \$10 per share. With funds from the sale of this stock, it plans to buy additional equipment to take care of the mail contracts and new stock will be issued to take care of future expansions. The company plans to develop a line to Florida to connect with the Pan American Lines operating to Latin America.

PERMIT FOR \$35,000,000 HYDRO-ELECTRIC PROJECT.

Empire District Electric Company Plans \$16,700,000 Dam.

Joplin, Mo.—Following the announcement that the Missouri Public Service Commission has granted permission to the Empire District Electric Company, of this city, to build a dam across White River at Tablerock, as a unit of a \$35,000,000 hydro-electric development there, J. E. Harsh, general manager of the company, announces that application will be made immediately for a federal license to build the dam. The state permit, it is said, removes one of the chief obstacles in the way of the development and it is thought the dam will be started soon, as the Federal Power Commission has already been supplied with data regarding the project and it is expected the license will be granted without another hearing.

The dam will be 1924 feet long and 197 feet high, creating a reservoir of about 29,000 acres and extending about 65 miles up the White River and 30 miles up the James River above its confluence with White River. It will also extend about 23.5 miles on Long Creek and about 15.5 miles on King River. The Empire District Electric Co. is controlled by Henry L. Doherty & Co., New York, and the construction of the dam will probably be handled by the forces of the latter company.

Open Shop Conference Program.

Freedom for men and women to work where they may choose and on such terms and under such conditions as appeal to them; and freedom to employ such working men and women as desired are objectives to be discussed at the meeting of the American Plan Open Shop Conference to be held at Fort Wayne, Ind., November 15-17. A. C. Rees is chairman of the conference, which has headquarters at Salt Lake City, Utah.

"There must be no North, South, East or West, if industry is to be restored to its rightful place in the confidence of the public—we must speak out with one voice if we are to be heard and respected," says the invitation issued by half a dozen of the leading business men of Indiana, speaking for the State which is to be host to the gathering. "We must meet in common council; we must bring our problems with us; we must discuss them freely; we must not suppress facts because they are unpleasant; we must face the issues squarely; we must outline a course of intelligent and courageous action, and when we act we must act as a unit."

Among the topics on the program are: "America's Theaters," "Recent Happenings in the Coal Industry," "The Railroads' Experiment in Arbitrations," "Open Shop Tendencies," "Contributing Factors to Industrial Peace," "Co-operation," "Shop Talk," "Extending the Influence of the Open Shop" and "Significant Legislative Movements." Under these headings will be discussed such subjects as seasonal occupations, working conditions, wages, pensions, continuous employment, employee representation, Government ownership, undermining the judiciary and bureaucratic control.

The meeting last February at Jacksonville, Fla., was considered one of the most successful in the series and efforts will be made this year to surpass even that meeting.

Convention of Florida Architects.

The annual joint convention of the Florida Chapter of the American Institute of Architects and the Florida Association of Architects will be held December 7 and 8 at Winter Haven, Fla., under the auspices of the Polk County Association of Architects, of which R. C. Buckley, of Lakeland, Fla., is president. The visiting Board of Directors of the national body of the American Institute of Architects will be guests of the

convention. Material men who desire to arrange for an exhibit at the convention may obtain information from George Lee Kramer, secretary-treasurer of the Polk County Association of Architects, Winter Haven.

10-Story Hotel for Victoria, Texas.

Victoria, Tex.—Plans are being prepared by John G. Becker, San Angelo, Tex., for a 10-story hotel to be erected here by Glen L. Bruner, San Antonio, according to current reports. The building will be fireproof, of structural steel and brick.

\$260,000 Improvements for New Orleans Hospital.

New Orleans, La.—Plans will be ready early in December for the new \$150,000 building to be erected as an addition to the nurses' home of the Charity Hospital of Louisiana, Frederick W. Matthews, secretary-treasurer, and for a \$110,000 boiler building. Construction will be of concrete and brick. Favrot and Livaudais, Ltd., New Orleans, are the architects.

Preliminaries for \$2,575,000 Baltimore Postoffice.

The Treasury Department, Washington, James A. Wetmore, Acting Supervising Architect, will open bids November 14 for soil investigation of the site of the proposed new United States postoffice and courthouse for Baltimore. Drawings and specifications may be obtained from the custodian of the building at Baltimore, or from the office of Mr. Wetmore. An appropriation of \$2,575,000 for the construction of the building was provided in the deficiencies bill passed by Congress last December, and of this sum \$500,000 is available to begin work.

Southeast to Promote Foreign Trade.

Subjects of importance to the trade and commerce of the Southeastern States and also to the entire South and the country at large, are announced for the second Regional Foreign Trade Conference of the Southeastern States, to be held at Atlanta, November 20 and 21, in co-operation with the Atlanta Foreign Trade Club, the Atlanta Chamber of Commerce and the bureau of foreign and domestic commerce of the Department of Commerce. The first regional foreign trade conference for that section was held in Atlanta in March, 1927, with results said to have been of much value.

Of several subjects so far placed on the program, "Exporting Perishable Southern Food Products," will be made the leading feature, and a committee is perfecting arrangements for exhaustive discussion of this topic. Other subjects to be considered are: "Financing Exports and Imports," "Banking and Credit Methods in Foreign Trade," "Commercial Aeronautics a Coming Factor in Overseas Trade Expansion," "Packing for Safety and Economy," "Export Trade Associations and Cooperative Selling," "Teaching and Learning Foreign Languages," "Selecting the Overseas Agent," "World Geography a Basis for the Export Sales Campaign," "Inland Waterways Development," "Trading Through Southern Ports" and "A Permanent Merchant Marine."

Every effort is being put forth to make the conference of definite value to Southern exporters and importers, sales executives, bankers, steamship operators and agents, railway traffic men, ocean freight brokers and forwarders, marine insurance companies, students of economics, trade association secretaries—to men in almost every line of industrial, commercial, business and financial activity. Prominent speakers will address the gathering and formal and informal discussions will be features.

Information can be obtained from the secretary, 538 Post-office Building, Atlanta.

1927 Census of Building Tile Products.

Establishments engaged primarily in the manufacture of hollow building tile in 1927 as reported for the biennial census of manufactures taken in 1928, have a total output valued at \$25,952,725. This represents a decrease of 4.9 per cent in value as compared with 1926 and 9.6 per cent compared with 1925.

The industry title covers establishments engaged primarily in the manufacture (from clay) of partition, load-bearing, furring, book, floor and silo, and corner tile; and conduits, radial chimney blocks, and fireproofing tile. It does not cover the production of building tile made of cement composition or of concrete.

Of the 155 establishments reporting for 1927, 36 were located in Ohio, 13 in Indiana, 13 in Pennsylvania, 12 in Illinois, 12 in Iowa, 8 in New Jersey, 7 in Texas, 6 in California, 6 in Kansas, 6 in Minnesota, 4 in New York, 4 in West Virginia, 3 each in Missouri, Nebraska, Oklahoma and Oregon, 2 each in Alabama, Colorado, Michigan, and New Mexico, and 1 each in Georgia, Kentucky, Massachusetts, Mississippi, Montana, North Carolina, South Carolina and Tennessee. In 1925 the industry was represented by 164 establishments, the decrease to 155 in 1927 being the net result of a loss of 30 establishments and a gain of 21. Of the 30 establishments lost to the industry, 9 were idle throughout the year, 10 went out of business prior to 1927, and 11 reported commodities other than hollow building tile as their principal products and were therefore transferred to the appropriate industries.

SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of increase (+) or decrease (-)
Number of establishments.....	155	164	-5.5
Wage earners (average number)*	7,929	8,250	-3.9
Wages†	\$10,397,937	\$10,611,251	-2.0
Cost of materials, supplies, fuel and purchased power, total‡	\$8,298,681	\$8,549,128	-2.9
Materials and supplies.....	\$3,050,690	\$...
Fuel and power.....	\$5,247,991	\$...
Value of products§	\$25,952,725	\$28,452,095	-8.8
Value added by manufacture¶	\$17,654,044	\$19,902,967	-11.3
Horsepower	58,697	56,052	+4.7

*Not including salaried employees.

†The amount of manufacturers' profits cannot be calculated from the census figures, for the reason that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

‡Not reported separately.

§Value of products less cost of materials, supplies, fuel and purchased power.

Census of Roofing Tile.

The Department of Commerce announces that, according to data collected at the biennial census of manufactures taken in 1928, the establishments engaged primarily in the manufacture of roofing tile in 1927 reported a total output valued at \$5,434,866. The total for 1927 represents a decrease of 24.1 per cent in value as compared with that for 1926, and an increase of 3.2 per cent as compared with that for 1925.

This industry title covers establishments engaged primarily in the manufacture of roofing tile from clay only. It does

not cover the production of roofing tile made of materials other than clay, such as concrete (sand and cement).

Of the 24 establishments reporting for 1927, 16 were located in California, 2 in Georgia, 2 in Kansas, and 1 each in Colorado, Missouri, Ohio and Tennessee.

SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of increase (+) or decrease (-)
Number of establishments.....	24	11	...
Wage earners (average number)†	1,410	1,302	+8.3
Wages‡	\$1,859,121	\$1,883,882	-1.3
Cost of materials, supplies, fuel and purchased power, total§	\$1,139,266	\$1,309,744	-13.0
Materials and supplies.....	\$537,986	\$...
Fuel and power.....	\$601,280	\$...
Value of products¶	\$5,434,866	\$5,841,271	-7.0
Value added by manufacture¶	\$4,295,600	\$4,531,527	-5.2
Horsepower	7,353	5,881	+25.0

*Per cent not computed where base is less than 100.

†Not including salaried employees.

‡The amount of manufacturers' profits cannot be calculated from the census figures, for the reason that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

§Not reported separately.

¶Value of products less cost of materials, supplies, fuel and purchased power.

Floor and Wall Tile Census.

According to data collected at the biennial census of manufactures taken in 1928, the establishments engaged primarily in the manufacture of floor and other tile, except drain tile and roofing tile, in 1927 reported products valued at \$27,959,299. The total for 1927 represents a decrease in value of 2 per cent as compared with 1926 and an increase of 24.8 per cent as compared with 1925.

This industry title covers establishments engaged primarily in the manufacture (from clay) of floor tile, ceramic mosaic tile, enameled tile, faience tile and wall tile.

Of the 62 establishments reporting for 1927, 13 were located in California, 12 in New Jersey, 10 in Ohio, 7 in Pennsylvania, 4 in Kentucky, 3 in Michigan, 3 in West Virginia, 2 in Florida, 2 in Indiana, and 1 each in Massachusetts, Minnesota, Missouri, New York, Tennessee and Wisconsin.

SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of increase
Number of establishments.....	62	55	...
Wage earners (average number)†	9,264	7,704	20.2
Wages‡	\$10,461,992	\$8,765,800	19.4
Cost of materials, supplies, fuel and purchased power, total§	\$8,286,354	\$6,809,227	21.7
Materials and supplies.....	\$6,196,492	\$...
Fuel and power.....	\$2,089,862	\$...
Value of products¶	\$27,959,299	\$22,454,994	24.5
Value added by manufacture¶	\$19,672,945	\$15,645,767	25.7
Horsepower	14,404	11,920	20.8

*Per cent not computed where base is less than 100.

†Not including salaried employees.

‡The amount of manufacturers' profits cannot be calculated from the census figures, for the reason that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance and advertising.

§Not reported separately.

¶Value of products less cost of materials, supplies, fuel and purchased power.

Resources of Danville, Va., Shown.

Eight months of painstaking and efficient research work in the industrial area of Danville and Pittsylvania county, Virginia, by the Danville Register, attained fruition on Sunday, October 28, in a special issue giving a careful analysis of the resources of the district. And this analysis, according to the Register, will "inevitably indicate the most direct route to a heightened community prosperity."

The survey included Pittsylvania, Henry, Halifax, Patrick and Franklin counties in Virginia and Rockingham, Cas-

well and Person counties in North Carolina, among the cities being Martinsville, South Boston, Reidsville, Leaksville-Spray and Danville. In addition to its regular news and editorial and special columns, the Register filled four large supplement sections with its findings on various lines. For example, it shows that Danville, with a population of 30,557, has 48 diversified industries, annual payrolls of \$8,297,812 and bank resources of \$16,274,562, while Pittsylvania county, with population of 56,493, has 7380 farms, valued at \$27,400,000; 192 schools, valued at \$1,007,000, and four banks, resources, \$3,625,000. Features of home life and religious, educational and recreational opportunities also are detailed.

IRON, STEEL AND METAL MARKET

Heavy Contracts for Fabricated Structural Steel— Rail Buying Active.

Pittsburgh, November 5—[Special.]—Conditions in the steel market show no material changes except such as may be considered purely seasonal, and few even of those. Fabricated structural steel lettings would naturally be expected to fall off at this time of year (and so near the election, too!), but lettings reported last week, 42,000 tons, were one-fourth to one-third larger than those in any of the five preceding weeks. Rail buying, in the annual movement, proceeded apace. A Western road ordered 50,000 tons, and the Pennsylvania ordered 159,600 tons, reserving options on 70 per cent more, to be exercised any time prior to October 1, 1929.

It is somewhat curious that when all this year steel demand has run above that of last year, and the gain in the last few months has been very large over the same months of last year, rail orders are running somewhat lighter. A comparison of identical roads shows 516,359 tons bought this time against 592,300 tons last time, or 13 per cent decrease. Including other orders, the season total to date is over 600,000 tons. The New York Central and many other roads are still to buy, this month and next. A small part of the tonnage will be rolled in December, deliveries generally being over the first half of the new year.

The Steel Corporation shows a substantial gain in earnings from the second to the third quarter, but that is the regular thing, on account of profits in Lake Superior iron ore movement. Practically all steel producers are having larger earnings this year than last, which is not fresh news, as the heavier tonnage indicated as much. The interesting thing is the comparison between quarters of this year. Seven independent steel companies, representing one-third of the total steel making capacity or over 55 per cent of the independent capacity, showed a total increase in net earnings of 39 per cent from the first to the second quarter, but no further increase at all to the third quarter. Steel shipments were substantially the same in each quarter. The lack of gain for the third period must be a surprise in all quarters.

Pig iron production reached a new high rate for the year in October, but did not reach the high point of the spring of last year. Steel ingot production in October may be estimated at nearly if not quite 90 per cent of rated capacity, which would make October second to April in rate of output. It is unprecedented for the second half to come so close to the spring peak rate. Only a little seasonal decrease is to be expected to the end of the year, and the calendar year total of steel ingot production may be forecast as about 49,500,000 gross tons, which would be 13 per cent gain over 1927 and 6 per cent gain over 1926, the record year.

Automobile production has now decreased very considerably. Ford production has mounted to about 5,500 a day, but Chevrolet is changing to a new model and steel for the new model is not being ordered as soon as was expected. Operation of the agricultural implement industry continues very heavy and may be increasing somewhat. There is a little freight car buying here and there, but there is no tangible evidence supporting the hope in some quarters that the railroads will buy cars with some freedom in the next few months.

Finished steel prices are firm all along the line, which is natural enough considering the demand. All told, the mills have not accomplished a great deal in their effort to secure better prices. It was just a year ago that a fresh and strong ambition in that direction spread over the steel trade. Bars, shapes and plates are bringing, on shipments, \$3 to \$4 a ton

more than a year ago. Sheets are higher than in last quarter, but a shade lower than a year ago. Nails are somewhat higher than a year ago, while strips on the whole have slipped somewhat. It is now generally understood that the sheet and strip mills will seek higher prices for first quarter and will probably succeed. Bars, shapes and plates are rather unlikely to be marked up further.

The scrap market has not softened further after the slight weakening reported a week ago. Valley pig iron is still stronger, a sale of 10,000 tons of basic being made at \$17.50, representing 50 cents advance.

Pig Iron Firm, Production Steady—Plant to Manufacture Bolts to Be Erected.

Birmingham, Ala., November 5—[Special.]—Furnace interests are not reporting sales as yet for delivery in the first quarter of the coming year. The price base is firm at \$16.25 per ton, No. 2 foundry, though reports from several other districts indicate advances of from 50 cents to \$1 per ton. Production of foundry iron continues steady, some being shipped for export while some of it is going into a mixture in the steel production. The independent furnace interests are adding but little, if any, to the surplus stock. Smaller consumers are still active; the larger melters have receded from the strong position noted during the past three months. Cast iron pressure pipe shops are producing steadily but new business is less than it has been; in fact some sections of the country have ceased laying pipe entirely. The unfilled tonnage with the pressure pipe makers is being worked down right along. The radiator maker is idle.

Foundries and machine shops are requiring some iron and stove manufacturers are working. Eighteen blast furnaces have been in operation in Alabama. The larger melters bought liberally 60 days ago and the smaller consumers are maintaining their hand-to-mouth policy. No iron is selling for next year's delivery. The furnace interests are delivering no iron at less than \$16.25 per ton, No. 2 foundry, starting off the last quarter with books cleared of the lower prices. Round tonnages of iron have been refused by furnace interests at concession on the present price base.

Melters of iron indicate firm belief in next year. Pressure pipe makers have made preparations for greater production on mechanically-produced pipe, additions being completed at active shops here and plans are in hand at another one.

Active operation at many of the steel mills is most encouraging. The idleness for the past few weeks of the Ensley Works of the Tennessee Coal, Iron & Railroad Company has had an ill effect. The demand for plate, sheet, wire and nails and smaller shapes in general has been good; fabricating shops report additional contracts though of smaller tonnages, sufficient in the aggregate to warrant the steady operation of shops for some time ahead. Much structural shape is being worked on and specialties also are being turned out.

Announcement is made that the Lamson & Sessions Bolt Co., of Cleveland, Ohio, will build a plant in North Birmingham at once, having purchased a site of eight and a half acres, well located in the industrial section of the immediate district, with good transportation facilities. A thoroughly modern plant will be erected, sufficient to care for the company's business in the South. Construction of the buildings will be with the idea that expansion will be warranted in a short time. The plant will manufacture bolts, nuts, rivets and Cotter pins, etc. Arrangements have been made for steel with the Tennessee Coal, Iron & Railroad Company. Upwards of \$500,000 will be expended in the development.

The coal trade shows little improvement. The domestic

trade is but a small percentage of the whole, steam coal requirements not being increased. The coke market is also unimproved. A movement of more than 1000 tons of coke has been started from the district for the Pacific coast, through Pensacola. Loading machinery at ports in the South now makes possible the elimination of crushing to a large extent.

The scrap iron mart is again reported improved. Heavy melting steel has two prices, one consumer buying the product at \$10 to \$10.25 and the larger melter of the district paying \$12.50. A difference in the class of steel is suggested by dealers. Demand for stove plate is lagging; No. 1 cast is in fairly good demand.

In order to accommodate urgent demands of heavy shippers, the Mississippi-Warrior Barge Service put on an additional tow this week from Birmingham. Much cotton is moving down the Warrior river, also iron and steel products, the steel for distribution in Texas and adjoining States. The barge service has a tow each week and the traffic has been heavy. An additional tow and a number of barges have been ordered for the service, to be placed on the river by early January.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$16.25; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.75; iron of 2.75 to 3.25 per cent silicon, \$17.25; iron of 3.25 to 3.75 per cent silicon, \$17.75; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	11.00 to 12.00
Heavy Melting steel.....	10.25 to 12.50
No. 1 cast.....	14.50 to 15.00
Stove plate	13.00 to 13.50
No. 1 railroad wrought.....	9.50 to 10.50
Old car wheels	12.00 to 12.50
Old tramcar wheels	12.50 to 13.00
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.).....	13.00 to 13.50

Copper Dominates the Metals—Industry Interested in the Election.

New York, November 5—[Special.]—Metal buyers and sellers are more interested in the Presidential election than in their own industry at the moment. As this is written the election results are, of course, in doubt, though when this is read the decision will have been made. The metal industry as a class has perhaps been more interested in one of the candidates than usual because he is a member of their own fraternity. Herbert Hoover is a former president of the American Institute of Mining and Metallurgical Engineers. He is the recognized leader of the profession which develops America's most prized possessions, its mineral resources, and which develops real he-men.

Copper continues the stellar performer of the metals. It rises so rapidly that it is difficult to keep track of current price levels. Just now the domestic price is 16c per pound, delivered to the Connecticut Valley, and 16¼c, c. i. f. European ports. This is a rise of 2c per pound so far this year, or over 14 per cent. Prices are the highest since May, 1923, the average price for which month was 15.63c per pound, f. o. b. refinery. The average in April of that year was 16.81c and in March 16.96c, which in turn had been the peak since September, 1920, which was 18.04c.

Copper buying has not been as feverish as during the first part of October, but has been very brisk none the less. Copper Exporters, Inc., did an unusual thing when they commented officially on the situation. They warned consumers not to overbuy lest it create a runaway market. They stated that the increased mine production would relieve the situation within six months and pointed out that September production was 7,000 tons in excess of August and 20,000 tons greater than in January. However, some exception has been taken by consumers to the recent courses taken by producers. Some claim that the recent statement of the copper export

association was unwise, as it will tend to promote the very thing it was designed to curb; that it is like calling out "Fire" in a crowded theater. They also have objected to the price tactics of the producers. Several months ago producers were urging consumers to buy more into the future to create market stability, they claim; now producers are telling them not to buy. The copper users sometimes accuse sellers of not selling at one level against an open inquiry because they wish to await a higher selling price. Producers justify their action, however, by claiming that they are entitled to the boom period in copper in view of the many lean years. They say that by advancing copper prices they check over-buying, which if not checked, would cause actual distress because of lack of the red metal.

So far there has been no distress. No plants have been compelled to shut down because of lack of raw material nor have they been forced to curtail working schedules. Whereas, a week ago the bulk of sales was for January delivery, interest is now concentrated on the February position. In other words, in a week's time buying has advanced one month. Foreign users are purchasing chiefly for delivery this year. Foreign users are probably more worried about future supplies than domestic users, both because they are farther away from the source and because they are one month behind American users in their coverages.

Export sales during October were about 195,000,000 pounds. Total shipments during October were probably even greater than during September for the reason that more copper was produced for such shipments. Sales were lighter than for the preceding month because producers were more completely booked up than a month before.

The minor metals have witnessed but minor changes during the week. Antimony slid down by ¼c per pound to 10¼c. Quicksilver is steadier following the declines of the preceding four weeks. Going prices are \$124 per flask in this country, while the London market recovered slightly to £23. Silver is fluctuating around 58c per ounce. The behavior of cadmium must not be overlooked. A week ago it was selling at 80c per pound; today it sells at 95c to \$1 per pound, one of the most spectacular advances in a metal in several years. The big demand for cadmium for plating on the part of the automobile industry is responsible.

The tin market is again on a speculative rampage. Prices are rising rapidly without the support of consumers and contrary to the statistical trend. Prices on Thursday had risen to 49½c per pound, a gain of 1½c per pound in a week. The world's visible supply of tin increased 983 tons in October to 20,907 tons, the largest reserve supplies since the war. The speculative strength of the market is due to propaganda put out by those floating tin shares, based on mergers among tin producing companies and predicted big consumption in 1929; also because the new National Metal Exchange will start operations in November.

Lead business is brisker than normal. Prices are steady and unchanged at 6½c per pound, New York. Supplies of lead in Europe are the smallest so far this year, though British prices do not yet reflect this strength. Zinc prices are unchanged at 6¼c per pound, East St. Louis, for slab zinc and \$40 for ore. Though mines are working but five days per week they are turning out more ore per day, thus nullifying the expected benefits.

\$400,000 Gas Plant for Hickory, N. C.

Hickory, N. C.—The city council has granted a gas franchise to the A. A. Whitlock Company, Berwick, Pa. This firm already holds franchises at West Hickory, Highland, Lenoir, Newton and Conover, all in North Carolina, to which gas will be piped from a plant to be erected here at a cost of about \$400,000 and for which contracts have been awarded, it is said.

GOOD ROADS AND MOTOR TRANSPORT

HIGHWAY TRAFFIC CONGESTION INCREASING, SAYS FEDERAL ROADS CHIEF.

Points Out Necessity for Obtaining Wide Rights-of-Way and for Building Highways for Safety at High Speeds.

"Traffic congestion, until recently a serious problem only in the cities, has moved outward and now imposes its time-consuming delays and menace to life and property upon the principal highways near large metropolitan centers," says Thomas H. MacDonald, Chief of the Bureau of Public Roads of the United States Department of Agriculture.

"Such congestion points especially to the necessity for acquiring rights of way of ample width to allow for future widening or the making of definite provision for future acquisition as needed. It also demands that highways be designed for safe use at higher speeds, and that arterial routes be improved with the service of the entire route in mind. In metropolitan areas congestion has emphasized the urgency of grade-crossing elimination, wider pavements, and the building of relief and by-pass highways."

Taken as a whole, traffic on the roads of the United States has doubled in less than five years, and in some States it is still increasing at an even more rapid rate. The design of motor vehicles has been so perfected that greater speed can be attained without increasing the hazard so far as the vehicles themselves are concerned. Development of common-carrier buses is still in its infancy.

To care for the ever growing and changing traffic, and to make a wise allotment of available funds, the Federal Government and State highway departments have found that some index of future highway needs is necessary as a working basis. Such an index they have acquired in their studies on the flow and growth of highway traffic in various sections of the country. From these studies, future needs are anticipated in re-establishing the location and in planning the structure of highways. Also a more efficient expenditure of funds is possible.

South Carolina Roads to Cost \$1,058,000.

Columbia, S. C.—A tabulation of bids by the South Carolina Highway Commission for building 9 road projects covering approximately 88 miles, and for three bridge projects, shows that the total of low bids exceeds \$1,058,000. The road work will include 35.26 miles of paving to cost \$737,794; 44.19 miles of top soil, \$237,165, and 8.6 miles of construction to cost \$39,550. The cost of the three bridges will total \$43,703.

Engineers for \$1,000,000 Knoxville Bridge.

The City of Knoxville, Tenn., through City Manager Otto Roehl, has retained J. E. Greiner and Company, Baltimore, as engineers for a \$1,000,000 bridge across the Tennessee River at Henley street. The structure will consist of a series of concrete arches, 70 feet wide, to rest on piers, the engineers to assume charge of the project at once and supervise borings for the proposed piers.

Kentucky Asks Bids on 63 Miles Roads.

Frankfort, Ky.—Sealed proposals will be received until November 30 by the State Highway Commission for the construction of 7 road projects covering a total of 63.2 miles and for two bridge projects. Six road projects call for a total of 57.2 miles of grading and drainage work and one project for

6 miles of reconstruction. A bridge consisting of two 24-foot reinforced concrete deck girder spans and one 75-foot steel plate girder span, with reinforced concrete piers and abutments, will be built at Stearns, and a structure will be erected over Beech Fork, in Nelson County, to consist of two 120-foot steel spans with wood floor and concrete pier and abutments.

Texas County to Vote on \$400,000 Road Bonds.

Wellington, Tex.—An election will be held in Collingsworth County November 24 on a bond issue of \$400,000 for paving highway No. 4 across the county. It is both a national and state road and is known as the Great Plains highway.

\$221,000 Contract for Texas Road.

Dallas, Tex.—The Janes Contracting Co., of this city, has been awarded contract at \$221,641 for paving four miles of the Buckner boulevard from the Seagoville road to East Pike at Buckner Orphans' Home. Paving will consist of concrete, 10 inches thick on the side tapering to 7 inches in the center. The boulevard will be 40 feet wide.

St. Louis County Sells \$600,000 Road Bonds.

Clayton, Mo.—The St. Louis County Court has sold a block of \$600,000 4½ per cent road bonds to Eldredge & Co., Chicago, on a bid of \$610,326, the bonds being a portion of an authorized issue of \$10,000,000 and the first to be offered by the county under competitive bidding since the issue was authorized. With the allotment from the state's proposed road bond issue of \$75,000,000, should the latter be voted in November, St. Louis County will expend approximately \$18,000,000 for roads in the near future.

Propose \$1,000,000 Road in Texas County.

Zapata, Tex.—County Engineer T. E. Huffman, of Laredo County, acting for the State Highway Commission, has completed a preliminary survey of a highway through Zapata County which will extend for a distance of 53.6 miles, beginning at the Webb County line 17 miles from Laredo. The new route will be in close proximity to the Rio Grande River and upon its completion will serve as a military highway connecting Fort McIntosh at Laredo with Fort Ringold at Rio Grande City and Fort Brown at Brownsville. Construction will involve four large bridges and a number of small ones. The project involves the expenditure of \$1,000,000.

Annual Meeting of Highway Research Board.

The Highway Research Board's Eighth Annual Meeting will be held December 13 and 14 at the National Academy of Sciences and National Research Council building, Washington. Topics to be discussed will include:

Practical methods based on sound research for taking care of unusual drainage and other subgrade conditions, and for methods for design of pavements; new developments in finishing bituminous surfaces; factors to be considered in correlation of soil and pavement conditions; design of guard rail based on extensive research in Pennsylvania; properties of bituminous materials for surface treated roads; safety on highways as affected by rural or urban conditions, degree of improvement of roadway, light or heavy traffic, increasing volume of traffic; effect of width of roadway and various physical conditions on carrying capacity; the Maryland aerial traffic survey between Washington and Baltimore; methods used in promoting the financing of state highway systems; sound economic principles in financing road improvements; research work of the National Safety Council.

To Operate Bus Lines From Kansas City.

Kansas City, Mo.—The Missouri Truck Terminal and Storage Co. with an authorized capital stock of \$500,000 has been organized with C. E. Shofstall as president, to operate buses from Kansas City to St. Louis, Joplin, and Boonville, Mo., Salina, Kan., and Omaha, Neb. The new company is an outgrowth of the Missouri Freight Transit Corp. and will maintain storage space in connection with a truck terminal for independent lines as well as its own. The present company operates a truck freight line to St. Louis and Joplin and other points within a 100-mile radius of Kansas City. A line will soon be established between Kansas City and Omaha and Kansas City and Salina, making it possible for the manufacturer to store his merchandise with the company and have it delivered the morning after shipment has been ordered.

An option has been acquired on centrally located property in Kansas City with an area of 86,000 square feet, on which a 5-story building will be erected for storage. It is expected that the various phases of the company's activities will be in full operation within the next 30 days. Other terminals are also contemplated.

South Carolina County to Expend \$402,000 for Roads.

Greenville, S. C.—Under a reimbursement agreement with the State Highway Department, three sections of roads in Greenville County will be improved at a cost of \$402,000. The roads will embrace 10.5 miles of grading and surfacing on Route No. 2, 6 miles of grading and surfacing on Route No. 152 and grading and surfacing on Route No. 284 from Travelers Rest to the Greer highway.

\$250,000 Concrete Bridge Across Arkansas River.

Tulsa, Okla.—The Tulsa County Commission has engaged Victor H. Cochrane, Eugene Wood and Donald Witten, engineers of this city, to prepare plans for a \$250,000 concrete bridge across the Arkansas River at Sand Springs.

A Road Bond Issue to Be Resubmitted.

Gainesville, Tex.—A second election on a \$2,000,000 bond issue for constructing roads will be held in Cooke County on November 17, according to an order of the County Commissioners' Court. An election September 11 on a similar issue resulted in the defeat of the bonds.

Notes on Good Roads Construction.

The Waller County Commissioners Court, Hempstead, Tex., has sold \$230,000 road bonds of district No. 1, to Garrett & Co., Dallas, at \$230,037, proceeds of the sale to be expended largely on the Houston-Dallas highway.

The Ennis Road District, Ennis, Texas, voted a bond issue of \$1,250,000 for the construction of two permanent highways and for the retirement of existing bonds.

Pampa, Texas, has awarded contract at \$227,574, to the Stuckey Construction Company, of Pampa and Wichita Falls, Texas, for laying concrete pavement on 27 city blocks.

Brown County, Texas, has voted a \$1,650,000 bond issue for the construction of roads.

Alcorn County, Mississippi, has voted a bond issue of \$600,000 for the construction of roads.

Louisville and Nashville Completes Big Bridge in Alabama.



A \$1,200,000 bridge was recently completed over the Tensaw River by the Louisville and Nashville Railroad Company, with no interruption to regular train schedules. The bridge is located on the Mobile and Montgomery Division of the road, about 15 miles from Mobile, Ala. Eight fixed through truss-riveted spans, each 231 feet 6 inches, center to center end bearing, comprise the new structure. At each end of the bridge is an abutment supported on pile foundations. The nine piers in the river were sunk by the pneumatic process. The project was built on the location of the old structure during very heavy train service.

W. H. Courtenay, chief engineer of the railroad, directed the undertaking, plans being developed in his office by J. M. Salmon, bridge engineer. The Missouri Valley Bridge & Iron Company, Leavenworth, Kans., constructed the piers and abutments and also erected the superstructure, which was fabricated by the McClintic-Marshall Company, Pittsburgh, Pa. G. G. Bryson, resident engineer, was in charge during the construction period.

TEXTILE

Sub-Contracts on Chesnee Mills Building.

The following sub-contracts have been awarded to date on the new addition to the cloth and weave rooms of the Chesnee Mills at Chesnee, S. C., for which the Grier-Lowrance Construction Co., Inc., Statesville, N. C., is the general contractor:

Brick—Bostle Brick Co., Lattimore, N. C., and Merry Brothers, Augusta, Ga.

Miscellaneous iron—T. L. Talbert Iron and Steel Co., Charlotte, N. C.

Plumbing—Garrett Engineering Co., Spartanburg, S. C.

Roofing—Frank B. Ingold Co., Hickory, N. C.

Steel sash—Allison Steel Products Co., Chester, Pa.

Structural steel—Virginia Bridge and Iron Co.

Treated lumber—Piedmont Wood Preserving Co., Augusta.

The building will be 194 by 166 feet, one story and basement, of brick and steel, to house 1000 looms, while the cloth room will be 86 by 63 feet. Lockwood Greene Engineers, Inc., of Charlotte, are the engineers.

Alabama Mills Company Names Unit Superintendents.

Birmingham, Ala.—The following have been named as superintendents of nine of the textile mill units being erected in Alabama by the Alabama Mills Company, of this city, Clifford J. Durr, president: Aliceville, W. E. Rambo; Winfield, W. S. Porter; Haleyville, S. L. Bolton; Clanton, A. R. Meeks; Dadeville, G. W. Turnipseed; Greenville, W. B. Kitchens; Russellville, A. N. Martin; Jasper, Lawrence Cartland, and Fayette, J. L. Brannon. Paul A. Redmond is executive vice-president and Roscoe O. Roberts, general superintendent of the Alabama Mills Company, which is also building a unit in Wetumpka. Robert and Company, Inc., Atlanta, are the engineers and the Batson-Cook Company, West Point, Ga., general contractor.

Mills Enlarged From 8300 to 30,000 Spindles.

The Strowd-Holcombe Cotton Mills, of Birmingham, Ala., which recently sold a \$600,000 bond issue, advises that the bonds were sold to reimburse the company for its expenditures in connection with enlarging its cotton mill from 8300 to 30,000 spindles, with the necessary complement of automatic looms. The improvements were completed during the summer and the mill is now engaged on the production of print cloth, running on flat numbers. The company states that its inventories are abnormally low and that its production is sold well into 1929.

Contract on Hatch Hosiery Mill.

Belmont, N. C.—The following sub-contracts have been awarded on the proposed mill building here for the Hatch Full Fashioned Hosiery Co., for which W. O. Pratt, of Mount Holly, N. C., is general contractor:

Plumbing—R. L. Rhodes & Sons, Mount Holly.

Roof and metal work—G. G. Ray & Co., Charlotte, N. C.

Sash—Truscon Steel Co., Youngstown, Ohio.

Steel—Southern Engineering Co., Charlotte.

The building will be one story and half basement, 180 by 90 feet, of brick and steel, with concrete foundation, steel columns, concrete and wood floors and Barrett roof with monitor. It will be equipped with 16 knitting machines.

Roseland Spinning Mills on Full Time.

Lincolnton, N. C.—The Roseland Spinning Mills, Inc., recently purchased by the Rudisill Spinning Mills, Inc., are now running on a full time schedule in the production of fine combed yarns. The plant has been remodeled and new machinery installed.

Will Reclaim Cotton Waste Materials.

Columbia, S. C.—The reclamation of waste material from cotton mills and the manufacture of jute bagging will be involved in operations of the Carolina Bag & Bagging Co., which has secured a section of the old Howard School. If the project proves successful, it is understood that the company will erect a new factory.

Contract for New Unit of Wiscassett Mills.

Albemarle, N. C.—General contract has been awarded to the Brown-Harry Co., Gastonia, N. C., at approximately \$100,000, for erecting a unit here for the Wiscassett Mills Co. The building will be four stories, 147 by 104 feet, of reinforced concrete construction, and is expected to be completed by March 1. L. A. Brown, head of the contracting firm, will supervise building operations.

Plan to Increase Capital to \$2,000,000.

Calhoun Falls, S. C.—Stockholders of the Calhoun Mills, J. P. Gossett, president and treasurer, will meet here November 20 to consider a proposal to increase the capital stock of the company from \$1,000,000 to \$2,000,000. Resolutions recently adopted by the directors call for a stock dividend of 50 per cent in the amount of \$5,000,000, the dividend in stock, however, to be issued to stockholders on condition of the adoption of a further resolution favoring the stock dividend, to be considered at the meeting of the stockholders.

Birmingham Wants Textile Mills.

Birmingham, Ala.—A movement has been inaugurated here by business and industrial interests to encourage the removal of Eastern textile mills into Southern territory and to provide employment for 15,000 women available for work in plants of that kind. A committee, of which Colonel J. C. Persons, president of the American Traders National Bank, of this city, is chairman, is co-operating with civic organizations to induce hosiery, knitting and weaving mills to locate here and take advantage of the surplus female labor.

Additions to Two Units of Avondale Mills.

Additions are being made to the Catherine Mills and Sallie B. Mills at Sylacauga, Alabama, two units of the Avondale Mills, Birmingham, which are handling the construction with their own organization. A one-story extension, 214 by 130 feet, of mill construction, daylight type, is being added to the Catherine Mills and a 5-story warehouse, 132 by 75 feet, of standard brick construction with cast iron columns, steel beams and wood floors, to the Sallie B. Mills. J. E. Serrine and Company, Greenville, S. C., are the engineers.

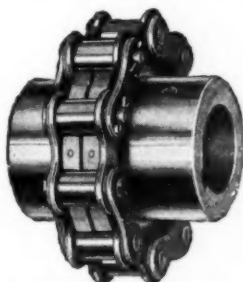
Textile Fabricating Plant for Greenville.

Greenville, S. C.—Through the activities of the Greenville Chamber of Commerce, the St. John Brothers' Co., Inc., New York, has acquired a brick building on the south bank of Reedy River adjacent to the Greenville and Northern railway station, for the establishment of a textile fabricating plant to manufacture various products common to the needle trade. A number of power sewing machines will be installed at once and about 50 girls and women employed. The company is considering building or acquiring larger quarters and installing machinery for making cloth and for bleaching, dyeing and printing.

NEW AND IMPROVED EQUIPMENT

Diamond Chain Takes Over Clark Coupling.

The Diamond Chain & Manufacturing Company, Indianapolis, Ind., has completed arrangements with the I. H. Dexter Company, Goshen, N. Y., for the manufacture and marketing of the Clark flexible coupling. This coupling, made and sold for the past 15 years by the Dexter Company, is described as extremely simple in construction and easily installed.



To install, each of the two sprocket halves is fitted to its shaft and Diamond chain is wrapped around over the teeth of the two halves and the master link inserted. They are made in a wide variety of sizes, for slow speeds or for high speeds, and for continuous drives or reciprocating drives.

Convertible Shovel for Speed.

An interesting development in shovel design is the new model A convertible $\frac{3}{4}$ -yard shovel recently brought out by the Orton Crane & Shovel Company, Chicago, Ill., described as an exceptionally fast machine, capable of delivering more than ordinary output. Light weight, small over-all clearances and high mobility are designed to make it particularly suitable for excavating and grading contractors, material yards, industrial plants and similar applications.

Chief among the features of the new machine are well-balanced design, scientific distribution of material, use of alloy steel for all power shafts and gears, and extension of



QUICK IN OPERATION AND LARGE IN CAPACITY.

cab so that the work can be seen from both sides of the operator's position. Strength and rigidity of the base are obtained by building it of rolled plates and shapes, which are thoroughly riveted and electric welded. Flexible crawling treads of the spring type absorb shocks and protect the operating mechanism from undue strains. The model A can also be furnished with road wheels or for mounting on standard auto-truck chassis, and likewise can be furnished with shovel, crane, dragline or skimmer attachment, and can be changed from one to any other in the field in less than two hours.

A feature of the shovel is the positive crowding action, the full power of the engine being transmitted directly to the digging edge of the dipper by the patented gear-driven crowding device. The shipper shaft is driven by a slip friction adjusted to release before the main clutches slip or the engine

stalls. The model A crane has a lifting capacity of 6 tons at a 12-foot radius and, when equipped with a standard 30-foot boom, handles a half-yard bucket throughout its operating range. Booms 35 or 40 feet long can be furnished for hook operation. The patented Orton T head on the ditcher attachment gives maximum pull back when the dipper stick is nearly horizontal, and minimum pull when the scoop is in a digging position. The dragline has a 30-foot, lattice-type boom, and the fairleader slides so as to give the most direct lead possible to the drum. The model A skimmer is provided with a steel boom, from which the scoop is suspended by means of bronze-bushed steel rollers. It has an effective length of travel of 11 feet, and the scoop has a capacity of half a cubic yard, with a width of 30 inches, although special widths can be furnished.

Electrically Operated Calculator.

An electrically operated calculator, "capable of speed beyond the skill of any human operator," is being introduced by the Burroughs Adding Machine Company, Detroit, Mich. Electric operation, it is claimed, reduces the actual physical effort on the part of the operator to a short depression of the keys. Light key touch actuates the motor and the motor instantly completes the operation. This new key touch with the motor doing the work, results, the company states, in greater operating efficiency and greater production per operator. Errors due to incompleting strokes of the keys are impossible, it is declared, as the operator cannot short-stroke or otherwise misoperate a key. The new calculator is similar in size and appearance to other Burroughs machines of this type. The small motor is entirely enclosed within the case and operates on alternating or direct current. It runs only when a key is depressed. The calculator is of 10-column totaling capacity size.

Water Supply for Hendersonville, N. C.

Hendersonville is completing the second step in its development of a water supply under the supervision of the Gilbert C. White Co., consulting engineers, Durham, N. C. According to Major Preson B. Phillips of that company:

"The present water supply system of Hendersonville consists of an intake dam on the North Fork of Mills River which impounds 5,000,000 gallons and is connected by about 16 miles of 16-inch cast iron pipe to a distribution reservoir within the city which stores 5,000,000 gallons. This system was built in 1924 and since it furnishes a dry weather flow of 1,120,000 gallons it was estimated it would take care of the city for at least five years, but was hardly adequate during the last dry spell. The present step comprises the construction of another intake dam on Bradley Creek, within the National Forest Area, and the laying of about 6 miles of 20-inch cast iron pipe to connect with the present 16-inch main. This program, which will soon be completed, will give the city a well forested watershed area of about 24 square miles, all within the National Forest area, from which the water will flow to Hendersonville by gravity. This area will insure a minimum drouth flow of 2,660,000 gallons per day and can be developed to yield over 20,000,000 gallons per day."

The work is being done under a board of water commissioners consisting of C. E. Brooks, K. G. Morris, J. W. Bailey and J. H. Lampley, Manager. The general contractors are V. B. Higgins and Co., Charlotte. R. G. Rand, Hendersonville, was the contractor for the dam; cast iron pipe was supplied by the American Cast Iron Pipe Co., Birmingham; valves by the Grinnell Co., Charlotte; venturi by the Builders Iron Foundry Co., Providence, R. I.; screen by Rodney Hunt Co., Orange, Mass.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.
The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

D. C., Washington—International Airways, Inc., Carleton E. Moran, Pres., 1716 H St., N. W., acquired Hoover flying field; plans developing field with 2 hangars, conc. runways, facilities for night flying, etc.

Fla., St. Petersburg—City construct airport to be known as Albert Whitted Airport with combined water and land facilities, 1/4 mi. from Post Office and center of city; grading and grassing to be done by day labor, \$40,000 appropriation; changing location of power lines, telephones and underground cables, and lighting and beacons, appropriation \$20,000; hangar by day labor, \$5000 appropriation; fencing, day labor, \$5000 appropriation; service roads, appropriation \$15,000; James Luchini, City Engr. 10-23

La., New Orleans—Gulf Air Lines, George Williams, temporary Pres., organized to develop aviation transportation; acquired St. Tammany-Gulf Coast Airways, Inc., Roosevelt Hotel, operating mail line from New Orleans to Atlanta; offering 40,000 shares of stock, \$10 per share; proceeds to be used to purchase larger equipment for handling present mail contracts.

Mo., Springfield—City will erect \$12,000 administration building at municipal airport.

Tex., Dallas—Dallas Air Taxi Co. incorporated; G. A. Wooten, 4801 Maple St.

Tex., Fort Worth—A. P. Barrett, 106 Pennsylvania Ave., acquired Texas Air Transport, Inc.

W. Va., Huntington—Chamber of Commerce interested in establishing airport.

Bridges, Culverts and Viaducts

Proposed Construction

Alabama—State Highway Comm., Woolsey Finnell, Dir., Montgomery, receives bids Dec. 5 for 8 bridges and 5 culverts: Dallas County—overhead bridge on L. & N. R. R., near Blalock; 12,000 F.B.M. treated bridge timber; Monroe-Wilcox Counties—bridges and culverts on road between Monroeville and Awin; 1,601 cu. yd. conc. in culverts, 143,000 lb. rein. steel; 2,000 cu. yd. culvert excavation; 1,398 lin. ft. timber conc. bridges; Greene County—culverts and bridges on road between Eutaw and Bolling; 888 cu. yd. conc. in culverts, 87,720 lb. rein. steel; overhead bridge on A. G. S. R. R.; Morgan County—relief bridge for Flint Creek, between Decatur and Hartselle; 23,400 lb. deformed bar rein. 55,400 lb. struct. steel; Coosa-Chilton Counties—culverts on road between Rockford and Verbena; 27,000 lb. rein. steel; Pickens County—bridges and culverts, between Reform and Mississippi State line; 57,000 lb. rein. steel, 2,000 cu. yd. culvert excavation; 85,630 lb. reinforcing steel in bridges; 76,649 F.B.M. treated timber; Bibb County—bridges and culverts on road between Centerville and Tusculloosa County line; Jackson County—highway bridge near Scottsboro.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., Louisville & Nashville R. R. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., and Southern Railway, B. Herman, Ch. Engr., Washington, plan receiving bids in about 30 days on first unit of \$4,000,000 underpass and viaduct program.

Ala., Montgomery—City Comm., W. A. Gunter, Mayor, receives bids soon for conc. bridge on Fairview Ave., Cleveland Ave. to Southern Dairies plant; replace Genetta Ditch bridge.

D. C., Washington—Executive Office, Arlington Memorial Bridge Comm., Navy Bldg., reported, received low bids from N. P. Severin Co., 222 W. Adams St., Chicago, Ill.,

\$381,000 for Boundary Channel Bridge, Arlington Memorial Bridge Project. 10-4

Fla., Punta Gorda—War Dept., Washington, D. C., approved plans for bridge across Peace River at foot of King St.

Fla., Venice—War Dept., Washington, D. C., approved plans for bridge across Miakka River 12 mi. south of Venice.

Ky., Maysville—State Highway Comm., Frankfort, will build toll bridge across Ohio River, Maysville to Aberdeen, Ohio; J. S. Watkins, State Highway Engr.

Ky., Scottsville—State Highway Comm., Frankfort, plans constructing bridge over Sulphur Fork Creek, Allen and Simpson Counties; will make survey; J. S. Watkins, State Highway Engr.

La., Columbia—War Dept., Washington, D. C., approved plans for bridge over LaFourche Bayou east of Columbia.

La., Slidell—War Dept., Washington, D. C., approved plans Louisiana Highway Comm., Baton Rouge, for bridge over Salt Bayou southeast of Slidell.

Md., Ellicott City—State Roads Comm., Baltimore, receives bids Nov. 13 for single span rein. conc. bridge, 22-ft. clear span over Deep Run, on Baltimore-Washington Blvd., near Waterloo, Howard County, Cont. Ho-60; John N. Mackall, Chmn.

Miss., Aberdeen—War Dept., Washington, D. C., approved plans for bridge over Tombigbee River near Aberdeen.

Mo., Mexico—City, J. H. Lane, Mayor, received low bid from Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, Mo., \$9400, for steel work of Clark St. viaduct as railroad crossover for U. S. Highway No. 54.

N. C., Currituck—Currituck and Dare Bridge Corp., L. C. Blades, Pres., Elizabeth City, plans \$300,000 for 3 mi. bridge with swing draw, having 40-ft. clearances on either side of center, over Currituck Sound from Point Harbor to Currituck Beach. 2-2

Tenn., Big Sandy—Dept. of Highways and Public Works, Nashville, receives bids in Dec. for bridge across Tennessee River at Big Sandy, Denton County.

Tenn., Kingston—Dept. of Highways and Public Works, Nashville, receives bids in Dec. for bridge over Tennessee River, near South West Point.

Tenn., Knoxville—War Dept. representatives will hold hearing Nov. 15 for proposed bridge over Tennessee River, at U T farm, to be built by Supt. of Highways and Public Works, Nashville, Col. H. S. Berry, Commr.

Tenn., Knoxville—J. E. Greiner & Co., Consit. Engrs., Lexington Bldg., Baltimore, Md., plan submitting designs early in Jan. for \$1,000,000 Henley St. Bridge over Tennessee River; City, Otto Roehl, Mgr., may receive bids by Feb. 1, 1929.

Tex., Beaumont—Southern Pacific Ry. Co., R. W. Barnes, Ch. Engr., Houston, preparing plans for railroad and traffic bridge across intracoastal canal, below Port Arthur.

Tex., Dallas—Dallas County Commrs., F. H. Alexander, County Judge, plan Corinth St. steel viaduct across Trinity River; Rollins & Clinger, Engrs., supervise work. 10-18

Tex., Houston—See Roads, Streets, Paving.

Tex., Zapata—War Dept., Washington, D. C., approved plans B. & P. Bridge Co., Zapata, for bridge over Rio Grande River near Zapata. 10-25

W. Va., Charleston—War Dept., Washington, D. C., approved application of State Road Comm., for permit for bridge across Kanawha River at Patrick St., connecting West and South Charleston; Kanawha County Court probably receive bids for substructure. 2-0

Contracts Awarded

Fla., Miami Beach—Sunset Island Co., Exchange Bldg., Miami, let contract to G. O. Reed, Inc., Miami Beach, \$13,000, for bridge from Sunset Island to Miami Beach.

Kentucky—State Highway Comm. let contracts for 2 bridges. See Roads, Streets, Paving.

N. C., Greensboro—City, E. B. Jeffress, Mayor, let contract for 2 bridges and culvert: Fairmount St. Bridge, connecting Fairmount St. with Lake Drive, Atlantic Bridge Co., Jefferson Blvd., Greensboro, \$13,116; over Buffalo Creek, West Market St., Hobbs-Peabody Co., \$11,700; culvert on Madison Ave., A. H. Guion & Co., \$5,250. 10-11

Okla., Siminole—Seminole County let contract for 2 bridges: 4-span, 320-ft. steel and conc. bridge near Sasakwa, Whitson & Kirby, Ardmore, \$55,359; 3-span, 226-ft. bridge near Konawa, Boardman & Co., Maple and Hawk St., Oklahoma City, \$38,011.

S. C., Spartanburg—Spartanburg County Highway Comm. and Laurens Commrs. jointly let contract to Southern Engineering Co., Dowd Bldg., Charlotte, N. C., for 2 bridges over Enoree River; 130x12-ft. steel span, Ligon Bridge, 83-ft. steel approaches, pier and footings, \$5500; superstructure only for Kilgore Bridge, 130x12-ft. steel truss, with 140-ft. wood approaches.

Tennessee—Dept. of Highways and Public Works, let contracts for 17 bridges. See Roads, Streets, Paving. 10-4

Tenn., Charlotte—Dept. of Highways and Public Works, Nashville, let contract to Fite Construction Co., Blairsville, Ga., \$32,767, for conc. bridges and approaches, Highway 48, Dickson to Charlotte, Dickson County. 10-4

Tenn., Knoxville—Knox County Highway Comm., Peter Blow, Chmn., let contract to Steel & Leiby Co., Holston Bank Bldg., for 52-ft. concrete bridge over Beaver Creek, Brown Gap road. 10-18

Va., Huddleston—Clark & Lewis, Luray, have contract, \$16,500, for steel and conc. bridge over Goose Creek, Huddleston; replace old span recently destroyed.

Va., Norfolk—Atlantic Bridge Co., Inc., Jefferson Bldg., Greensboro, N. C., will install new foundation for draw span across Tanners Creek; \$25,000 to \$30,000. 9-6

Canning and Packing Plants

Fla., Eustis—Orange Belt Packing Co. incorporated; S. L. Harris, C. E. Duncan.

Clayworking Plants

Ark., Benton—Niloak Pottery and Tile Co. having plans completed for addition to plant; Spanish architect; cost \$25,000. 4-19

Ga., Macon—Bibb Brick Co., 10th and Oak Sts., increased capital to \$500,000.

Okla., Ada—Ada Pottery Co., capital \$50,000, incorporated; W. H. Ebey, W. D. Little.

Tenn., Chattanooga—Dixie Mineral Products, Inc., W. H. Meachem, Pres., 1515 Duncan Ave., construct clay mining and refining plant; cost \$70,000.

Tex., Brownwood—Texas Brick Co. plans rebuilding burned plant.

W. Va., Buckhannon—Ours Mill Fire Clay Co., incorporated; E. Hager, Weston; A. B. Carter, Buckhannon.

W. Va., Huntington—Huntington Brick & Supply Co., capital \$25,000, incorporated; J. J. West, 926 Sixth Ave.; operate brick yard.

Coal Mines and Coke Ovens

W. Va., Bluefield—Cardiff Pocahontas Coal Co. increased capital, \$175,000 to \$200,000.

Cotton Compresses and Gins

N. C., Harrisburg—A. H. White considering rebuilding burned cotton gin.

N. C., Walstonburg—Farmers Gin and Mill Co., incorporated; W. R. Shirley, C. T. Hicks.

Cottonseed-Oil Mills

Tex., Yoakum—Mulberry Cotton Seed Co., capital \$30,000, incorporated; Sam Hamburger, Homer S. Frady.

Drainage, Dredging and Irrigation

Fla., Fort Lauderdale—Plantation Drainage Dist., will build canal east from West Dixie Highway to point where canal will empty into North Fork of New River; 30 ft. wide, 7 ft. deep.

Electric Light and Power.

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ark., Paris—City receives bids latter part of Nov. for turbine, generator, and water tube boiler in power plant; cost \$50,000. 11-1

Fla., Daytona Beach—City completing plans for installing white way on Atlantic Ave. from Main to Kemp Sts.; soon call for bids; E. F. Markham, Electrical Inspector.

Georgia—Georgia Power and Light Co., 52 William St., New York, Valdosta, Ga., and St. Petersburg, Fla., offering \$2,700,000 first mortgage gold bonds, 5% Series, due 1978, through E. H. Rollins & Sons, 200 Devonshire St., Boston; Howe Snow & Co., Inc., 120 Broadway, Eastman, Dillon & Co., 120 Broadway, both New York; Federal Securities Corp., 231 S. LaSalle St., Emery, Peck & Rockwood Co., 208 S. LaSalle St., Hill, Joiner & Co., Inc., 137 S. LaSalle St., Halsey Stuart & Co., Inc., 201 S. LaSalle St., H. M. Byllesby and Co., Inc., 231 S. LaSalle St., all Chicago; Blyth, Witter & Co., Russ Bldg., San Francisco, Cal.; corporation organized under laws of Georgia, supplies electric light and power to 39 communities; recently acquired properties of Valdosta Lighting Co., Ware County Light & Power Co., and Waycross Ice and Cold Storage; is interconnected with Florida Power Corp., an affiliated company, at Georgia-Florida State line, from which current is purchased; supplies 5 communities retail and 45 communities wholesale with ice; water service 3 communities; company is part of system of National Public Service Corp. and is under control of National Electric Power Co. and is part of Middle West Utilities System.

Ga., Pavo—Georgia Power and Light Co., Valdosta, is constructing a 33,000 volt transmission line between Boston, Barwick and Pavo; erect substation at Boston, Barwick and Pavo. 11-1

Miss., Hattiesburg—Mississippi Power Co., Gulfport, advises substation to be erected for Hercules Powder Co., will be a 750 kv-a station of 11,460 volts; Dixie Construction Co., 600 N. 18th St., Birmingham, Ala., will handle construction and all materials have been purchased. 11-1

Mo., Warrensburg—Public Service Comm., Jefferson City, granted authority to Missouri Public Service Co., to erect 66,000 volt, 3 phase transmission line here to Pleasant Hill.

N. C., Franklinton—Wilton Community Mutual Electric Light Line Corp., incorporated; W. D. Gooch, Franklinton; Frank E. Parrott, Creedmoor.

Okla., Tonkawa—City plans construction of electric light plant; V. Wheldon, Engr.

Tex., Abilene—West Texas Utilities Co. applied to State Bd. of Water Engrs., Austin, for permit to impound 2500 acre ft. water annually on Lytle Creek near here to provide water power for hydro-electric plant; 3 units, cost \$5,000,000; dam will impound 2,200,000,000 gals.

Tex., Coleman—City will install 750 kw. generator and 750 hp. steam engine in light and power plant; cost \$40,000.

Tex., Dallas—Dallas Power and Light Co., C. W. Davis, V. P. and Gen. Mgr., Interurban Bldg., plans expending \$2,750,000, covering purchase and installation of a 25,000 kw. turbo generator, together with auxiliary equipment, additional boiler, etc., erection of turbine room and boiler room, additional chimney, etc. 11-1

Tex., Eagle Pass—Central Power and Light Co., Frost National Bank Bldg., San Antonio,

advises hydro-electric project is in preliminary stage, only preliminary engineering done; R. W. Rockwell, Eagle Pass, Engr. for irrigation district. 9-20

Tex., Harlingen—City voted to sell electric light system and water works to Central Power and Light Co., Frost Natl. Bank Bldg., San Antonio.

W. Va., Charleston—Public Service Comm., approved construction by New-Kanawha Power Co., Carbide and Carbon Bldg., 30 E. Forty-second St., New York, and Glen Ferris, W. Va., of 2 dams on New River at Hawks Nest; initial expenditure of \$7,000,000; company plans utilizing water power of Kanawha River and its tributaries in manufacture of electric power which will be used in production of various chemical products by subsidiary companies of Union Carbide and Carbon Co., New York; construct 2 dams and tunnels to carry water through mountains of New River, forming new manufacturing center at Glen Ferris, at mouth of Gauley River; company has secured land rights for constructing plants at Boncar. 8-30

W. Va., Parkersburg—Monongahela West Penn Service Co., Fairmont, plans erecting 130,000 volt power transmission line from power plant at Rivesville via Hutchinson and Clarksburg to Parkersburg, build 15,000 kw. sub-station east of Parkersburg, has 5 acre site and number of connecting lines; construct several 22,000 volt transmission lines Parkersburg, to supply power for industrial purposes; line from Clarksburg to here will be 88 miles long. 9-27

Fertilizer Plants

La., New Orleans—H. N. Moody, 815 Perdido St., New Orleans, reported, has contract at \$22,280 for 100 ft. wharf, 24 ft. wide with 20x70 ft. approaches in front of Davison-Pick Fertilizer Co.; S. Young, Engr. 10-11

Foundry and Machine Plants

Ala., North Birmingham (Sta. Birmingham)—Lamson & Sessions Bolt Co., 1971 W. 85th St., Cleveland, Ohio, acquired 8½ acres, will erect plant to manufacture bolts, nuts, rivets, cotter pins, etc.; cost about \$500,000.

Mo., St. Louis—American Foundry and Mfg. Co. rebuild burned plant, Ninth and Wright Sts.

Mo., St. Louis—Atlas Tool and Mfg. Co., 5707 Manchester Ave., erect factory; brick, steel, 60x100 ft., 1 story, comp. roof; W. C. Harting Construction Co., Contr., 1001 Intl. Life Bldg.

Okla., Tulsa—Sinclair Pipe Line Co., Sinclair Bldg., erect \$20,000 machine shop; 1 story and basement.

Gas and Oil Enterprises

Ark., Junction City—Moran Corp. of the South, care W. T. Moran, 232 Forest St., Shreveport, La., reported awarded franchise; construct distribution system and gas plant.

La., Colfax—City defeated \$42,000 gas bonds. 10-11

La., New Orleans—Public Service, Inc., applied for authority to issue bonds for \$2,000,000 improvements and additions to gas, electric and street railway systems; complete high pressure gas distribution system; reconstruction of St. Charles-Tulane Belt Line and repave Baronne St.; purchase of 7 additional buses.

La., Vinton—Shallow Oil Co., Inc., capital \$25,000, chartered; D. M. McDaniel, Houston, Tex.; James F. Ellis, Vinton.

Miss., Woodville—City votes Nov. 13 on issuing \$22,500 bonds for constructing natural gas line to line of Interstate Natural Gas Co.

Missouri—Missouri-Kansas Pipe Line Co., 1004 Baltimore Ave., Kansas City, granted authority by Public Service Comm., Jefferson City, to complete construction of and operate pipe line system in Jackson and Cass Counties. 6-23

Mo., Kansas City—Skelly Oil Co., 2605 Walnut St., reported, let contract to L. Brettag & Son, 232 Railway Exchange Bldg., for 4 story, 60x160 ft., brick, rein. conc. warehouse, 25th St. 8-23

Mo., St. Louis—American Oil Co., capital \$25,000, incorporated; Bert Carpenter, 8026 Washington St.

Mo., Troy—Troy Oil Co., capital \$10,000, incorporated; G. N. Hann, Nicholas Trail.

N. C., Durham—Durham Gas Co. plans extending lines to Chapel Hill, cost \$150,000; lay 14 miles high pressure main between Durham and Chapel Hill; later plans extending lines to Duke University; company is subsidiary of Southern Cities Utilities Co., 1612 Market St., Philadelphia, Pa.

N. C., Windsor—Bertie Oil Co. incorporated; J. L. Pritchard, T. B. Sitterson.

Oklahoma—Taylor-Easterling Co., Kennedy Bldg., Tulsa, granted gas franchise at Binger, Duke, Olustee, Snyder and Verden.

Oklahoma—Merger, reported, pending of Independent Oil and Gas Co., Kennedy Bldg., Tulsa; Sinclair Oil Co., Sinclair Oil Bldg., Tulsa; Prairie Oil and Gas Co., Independence, Kans., and White Eagle Oil and Refining Co., Kansas City, Mo.

Okla., Bartlesville—Barron Oil Co., capital \$25,000, incorporated; H. O. Ballard, D. J. Burns.

Tex., Amarillo—Navajo Oil Co. of Texas, capital \$30,000, incorporated; Wales H. Madden, 1017 W. Tenth St.

Tex., Amarillo—J. C. Heaton, interested in establishment of gas refinery.

Tex., Corpus Christi—George B. Eggleston, Central Trust Bldg., San Antonio and Corpus Christi, construct loading rack.

Tex., Del Rio—Ohio Oil Co., Findlay, Ohio, reported, construct refinery.

Tex., Houston—Roxana Petroleum Co., Shell Bldg., St. Louis, Mo., reported, let contract to United Iron Works, Kansas City, Mo., for 4000 tons steel for refinery; to Youngstown Sheet and Tube Co., Youngstown, Ohio, for 45,000 tons pipe for 10-in. line and to National Tube Co., Frick Bldg., Pittsburgh, for smaller tonnage; about 70 miles of the 450 mile line yet to be placed; cost of pipe line, \$15,000,000.

Tex., Houston—Date Oil Co., capital \$40,000, incorporated; J. E. Duff, 1313 Sul Ross Ave.

Tex., Port Arthur—Lake Saline Oil Co., incorporated; A. J. LaBlanc, J. H. Faulkner.

Va., Lynchburg—Southern Cities Utilities Co., 1612 Market St., Philadelphia, Pa., acquired gas properties of Appalachian Electric Power Co., Bluefield, W. Va.

Va., Lynchburg—Lynchburg Gas Co. incorporated; Walter Whetstone, Ledger Bldg., Philadelphia, Pa.

Ice and Cold-Storage Plants

Miss., Durant—Morris Lewis, Lexington, plans erecting \$50,000 cold storage plant.

N. C., Greensboro—Community Ice & Utilities Co., Chicago, Ill., reported, acquired number of plants in North Carolina and Tennessee; plants in North Carolina include Piedmont Ice and Coal Co., Greensboro; Community Ice and Refrigerating Co., Burlington; W. A. Davis Ice and Coal Co., High Point; Cox-Ross plant, Asheboro; A. B. Pound's plant, Concord; company has established offices in American Exchange Nat'l Bank Bldg., Greensboro, in charge of Major W. L. Shuman.

S. C., Greenville—Pearce-Young-Angel Co., P. & N. Warehouse, erect warehouse and cold storage building; rein. conc., brick, 2 stories and basement, 125x75 ft., tar and gravel roof; Haskee H. Martin, Archt., Vickers Cauble Bldg.

Tex., Lufkin—Lufkin Ice Co., J. L. Phillips, Pres., erect \$100,000 ice plant.

Va., Norfolk—Jones Cold Storage & Terminal Corp., capital \$462,500, incorporated; Arthur P. Jones, 1215 E. Water St.

Iron and Steel Plants

Ala., Birmingham—Alabama Fabricating Co. plans erecting small steel fabricating plant.

Ga., Atlanta—East Texas Iron Co., capital \$450,000, incorporated; D. M. Barringer, John J. King.

Land Development

D. C., Washington—Wm. Meyer, Baltimore, Md., has contract at \$1.39 cu. yd. for excavating and removing 14,000 cu. yds. earth from Meridian Hill Park.

Fla., Clearwater—Albany Corp. incorporated; L. T. Gregory, Jr., Alfred P. Marshall.

Fla., Fort Pierce—A. H. White Co. incorporated; A. H. White, Harry J. Farrell.

Fla., Jacksonville—Englewood Land Corp. incorporated; Lewis L. and N. G. Pearce.

Fla., Miami—Dee Gee Corp. incorporated; Roland W. Granat, Seybold Bldg.

Fla., Miami Beach—Clow-Erdman-Lee, Inc., chartered; Robt. D. Clow, 543 Collins Ave.

Fla., Orlando—C. E. Riddle, Inc., capital \$15,000, chartered; C. E. Riddle, 627 Woodward Ave.

Fla., St. Petersburg—Roser-Snow, Inc., capital \$200,000, chartered; C. M. Roser, 695 Central Ave.

Fla., Miami Beach—City voted to purchase Flamingo Park from Miami Ocean View Co.; will improve.

Fla., Tampa—L. C. Edwards, Jr., Lake Thonolassas, acquired 25 acre orange grove at Temple Terrace Junction.

Fla., Titusville—Indian River High Shores Co., incorporated; J. W. Bullock, Charles W. Brooks.

Fla., Winter Haven—Polk Groves, Inc., develop 90 acres in citrus fruits; construct barns, outhouses, tenant houses, etc.; expend \$10,000.

Fla., Winter Park—G. C. S. Realty Co., capital \$150,000, incorporated; J. Goulden, John F. Connors.

Ky., Louisville—Majestic Realty Co., capital \$120,000, incorporated; Joe H. Greenstein, 1506 Cherokee road.

Ky., Louisville—Louisville Trust Co., S. W. Fifth and Market Sts., L. J. Kammeran, Sales Mgr., Real Estate Dept., plans developing additional tract in Lexington Manor, Lexington Rd. and Cannon's Lane.

Ky., Mayfield—Lochridge Realty Co., capital \$24,000, incorporated; W. S. and Robt. W. Lochridge.

La., New Orleans—Imperia Realty Co. incorporated; Louis L. Rosen, Hibernia Bldg.

La., New Orleans—Tulane Realty Co., capital \$75,000, incorporated; E. M. Stafford, Canal Commercial Bldg.

Md., Baltimore—Fairfield Realty Co., 1320 N. Charles St., incorporated; Harry Kairys, Equitable Bldg.

Md., Baltimore—Investment Realty Co. of Baltimore City, Inc., 1649 W. North Ave., incorporated; Albert J. Curran, 10 E. Fayette St.

Md., Baltimore—Davis Realty Co., 110 Hanover St., incorporated; Charles S. Shaffer, 330 St. Paul St.

Md., Baltimore—Bd. of Estimates approved purchase of 81-3 acres on Maiden Choice Lane for park and playground.

Md., Curtis Bay, Sta. Baltimore—Davison Realty Co., formed by C. Wilbur Miller, Pres., Davison Chemical Co., Garrett Bldg., Baltimore; develop 400 acres; work begun on bulkheading waterfront property, reclaim about 150 acres fast land all on deep water; portion of tract will be subdivided for dwelling construction; provide community recreation center; remainder of tract will be sold for industrial sites.

Md., Hagerstown—Maryland Caverns, Inc., 13 N. Jonathan St., incorporated; Rufus S. Freeman, John H. Lewin; develop caverns near Crystal Caverns.

Mo., St. Louis—St. Louis Hills Realty Co., subsidiary of Cyrus Crane Willmore Organization, Inc., acquired tract west of Hampton Ave. to River des Peres.

Mo., St. Louis—Brytol Realty Co., capital \$10,000, incorporated; John M. Robertson, Pierce Bldg.

Mo., St. Louis—Hohenstein Realty Co., 6411 Michigan Ave., developing subdivision; Grand & Melkert, 122 N. 7th St., grading contractor; E. R. Kinsey & Bro., Engrs., Wainwright Bldg.

Mo., St. Louis—Nat Gordon Realty Co., Inc., incorporated; George Wolfson, 302 Jefferson St.

Mo., St. Louis—Neidt Realty Co., capital \$50,000, incorporated; Helen and Anthony E. Neidt.

N. C., Hickory—City considering purchase of 162 acres on Catawba, develop park.

Okla., Tulsa—Lakeside Country Club, L. B. Myers, Sec., developing club project; complete dam, providing 57 acre lake; erect club house later.

Tenn., Knoxville—Tallassee Land Co., Asa Ambrister, developing golf course, and summer colony at Tallassee Springs.

Tenn., Memphis—Edward G. Riddick, 1426 Central Ave., acquired 621 acre farm in Obion County.

Tex., Austin—City, Adam R. Johnson, Mgr., receives bids Nov. 7 for improvements at Barton Springs Park. See Want Section—Bids Asked.

Tex., Austin—City, Adam R. Johnson, Mgr., H. F. R. Holland, Consol. Engr., receives bids Nov. 8 for changing channel and sloping banks of Barton Creek, constructing conc. dam and sidewalks at bathing pool; dam, rein. conc., 168 ft. long, 3 sluice gates, 15 ft. spillway section.

Tex., Denton—City plans having preliminary survey made for city planning; W. N. Harris, City Engr.

Tex., Houston—Cawfield Development Corp., incorporated; W. F. Cawfield, 2135 Harold St.

Tex., Houston—Robt. R. Kelly, 4504 Mt. Vernon Ave., and R. E. Spencer, Houston, acquired 32 a. res in Pasadena; develop subdivision.

Tex., Houston—Valhalla Park, Inc., acquired 50 acres adjacent to Forest Hill; develop cemetery.

Tex., Houston—Frank J. Breaker, Esperon Bldg., acquired 140 acres near LaPorte Road.

Tex., Port Arthur—Gist Realty Co., Adams Bldg., L. S. Gist, Pres., has 200 acres, develop 120 for subdivision with business community center; install sewers, water, lights, gas, shell streets, levee and pump; expend \$75,000.

Va., Greenwood—Blue Ridge Farms incorporated; R. Ortman.

Va., Hopewell—Goshen Holding Corp., capital \$50,000, incorporated; H. Powell Seward.

Va., Norfolk—Taylor Development Co., capital \$50,000, incorporated; Walter H. Hall, Jr.

Va., Petersburg—Petersburg Real Estate Co., Inc., chartered; Samuel W. Zimmer.

Va., Virginia Beach—Sea Breeze Realty Corp., capital \$25,000, incorporated; Bruce Simmons.

W. Va., Huntington—Robey & Robey Realty Co., incorporated; H. L. and Katherine L. Robey, 535 5th Ave.

W. Va., Huntington—Money Realty Co., incorporated; E. Lyle Kirkland, 1413 3rd Ave.

Va., Waynesboro—Irvine A. Downey, Princeton, acquired 33 acres outside corporate city limits; organize company and develop for subdivision.

W. Va., Welch—Appalachian Realty Co., capital \$150,000, incorporated; G. G. Johnson, J. Randolph Tucker.

Lumber Enterprises

Fla., Vero Beach—H. D. Barwick Co., Inc., incorporated; H. D. Barwick, Chrissie I. Barwick.

Georgia—Hancock Lumber Co., Sparta, acquired tract of timber in Decatur County near Bainbridge; will develop.

Ky., Jeffersontown—Continental Lumber & Mfg. Co., capital \$50,000, incorporated; M. S. Patton, C. T. Snowden.

La., Jonesboro—Jonesboro Lumber Co., Inc., chartered; K. M. Galennie, C. C. Galennie.

Miss., Kosciusko—C. M. Ozier and H. C. Miller acquired J. L. Hammond planing mill and gin.

Miss., Meridian—Hamm Lumber Co., Booneville, leased Morgan Hardwood Lumber Co.; J. B. Hamm, Booneville, will be in charge.

Mo., Republic—O'Neal Lumber & Coal Co. incorporated; E. E. Bales, Anna A. Putman.

N. C., Charlotte—Cathey Lumber Co., John R. Cathey, Pres., 3088 Fifth St., let contract to Blythe & Isenhour, Brevard Court, for constructing \$100,000 plant, S. Graham and Penman Sts.; 2-story brick building, with basement, for warehouse purposes; several buildings for storerooms for dressed lumber and moulding; warehouse for storage of plaster and cement; offices and showroom in main building.

Tenn., Memphis—R. L. Jurden, 621 S. Willett St., Pres. of Penrod-Jurden Lumber Co., reported, announced that his company merged with following: Chicago Mill & Lumber Co., Chicago; Arkansas Oak Flooring Co., Pine Bluff, Ark.; R. J. Darnell Co., V. & P. Bank Bldg.; Hudson Lumber & Flooring Co., New S. Memphis, both Memphis, merged; company will be known as Chicago Hardwood Lumber Co.; M. L. Paepcke, Pres. of Chicago Mill & Lumber Co., will probably be new president.

Tex., Houston—H. M. Cohen Lumber and Building Co. incorporated; H. M. Cohen, 3302 La Branch St.

Metal-Working Plants

La., Shreveport—Houseman Sheet Metal Works, Inc., capital \$25,000, chartered; G. A. Houseman, 1549 Jordan St.

Mining

Mo., Joplin—National Metal Corp., organized under laws of Delaware, to acquire Missouri Kansas Zinc Corp., Joplin, including Kansas Zinc Mills; companies engaged in production of lead and zinc concentrates; new company will be under same management as Missouri Kansas Zinc Corp.

N. C., Charlotte—Charlotte Stone Co., capital \$75,000, incorporated; George H. Moore, 427 Queens Rd., Myers Park.

N. C., Lilesville—Wade Sand & Gravel Co., capital \$150,000, incorporated; E. E. Wade, C. L. Jones.

N. C., Lincolnton—Syndicate of New York interests, reported, develop extensive tin lode near Lincolnton; plans erecting 50 ton mill;

Alexander Spotswood, North State Hotel, Engr., in charge of operations.

Tex., Wink—Wink Gravel and Clay Co. incorporated; G. F. Bates, Lilly Bates.

Va., Warrenton—Fauquier Quarries, Inc., capital \$25,000, chartered; John S. Hutton; will develop stone and rock quarry.

W. Va., Rupert—Rupert Holding Corp., incorporated; L. E. Rupert, Florence, Colo.; Rupert McClung, Rupert.

Miscellaneous Construction

Fla., Melbourne—J. C. Skelton of Midway Tourist Camp announced construction will start soon on fishing pier; 1200 ft. out into water, with 100 ft. T, 12 ft. wide.

Fla., St. Petersburg—City Comm. authorized expenditure of \$10,000 for municipal wharf improvements.

Louisiana—War Dept., U. S. Engr. Office, New Orleans River Dist., received following low bid for 225,000 cu. yd. of earthwork in New Orleans Levee Dist.; designated as follows, name of bidder, price, estimated net yardage and name of levee: Lower Tensas Levee Dist.—Robinson Construction Co., Centerville, Miss., \$30, 25,500, Taceny-Palo Alto; Robinson Construction Co., and E. Wooten, Vicksburg, Miss., at \$32, 34,500, Vidalia St. Genevieve; Robinson Construction Co., \$40, 7050, Roseland-Ashland; Atchafalaya Levee Dist. (Front)—Southport Construction Co., Inc., Southport, La., \$4373, 14,400, Point Menier; Picard Cons. Co., New Orleans, \$277 for 22,000 cu. yd., Brusley levee, 1400 cu. yd., St. Louis, 11,500 cu. yd., Golden Ridge Levee, 4000 cu. yd., Bayou Goula, 6500, Babin; Atchafalaya Levee Dist. (Back)—Robinson Construction Co., \$40, 17,000, Tin Bara Levee, No. 2; Red River, Atchafalaya and Bayou Boeuf Levee Dist.—J. H. Linstrom, \$34, 15,000, Nolita; Pontchartrain Levee Dist.—Picard Construction Co., \$277, 21,000, Magnolia Gattness, 17,000 Forlorn Hope, 8400 Golden Gate, Lot 1, 5000 Golden Gate Lot 2, 4500 Point Clare Levee; Southport Construction Co., Southport, La., \$51, 4000, Mount Houmas.

Mississippi—War Dept., U. S. Engr. Office, F. B. Wilby, Major, Corps of Engrs., Dist Engr., 1006 McCall Bldg., Memphis, Tenn., let contract to following for constructing 1,632,000 cu. yd. of earthwork in Upper Yazoo Levee Dist., for which bids were received Oct. 24: McWilliams Co., Inc., Exchange Bldg., at \$2490 per cu. yd.; Lowrance Bros. & Co., \$2570 per cu. yd.; Canal Construction Co., McCall Bldg., \$2435 per cu. yd., all Memphis, Tenn.

Mississippi—War Dept., U. S. Engr. Office, New Orleans River Dist., Office of Dist. Engr., River Front at Burdette St., New Orleans, La., has low bid, \$3995 per cu. yd., from R. C. Webb, Delta, La., for constructing approximately 17,200 cu. yd. of earthwork in Palmyra Levee on Palmyra Island (Davis Island), Warren County, Miss., about 19 miles below Vicksburg, Miss.

Mo., St. Louis—Zeigenheim Bros., S. Kingshighway Blvd., erect \$200,000 mortuary; T. P. Barnett, Archt., Arcade Bldg.

Tex., Galveston—City plans \$100,000 bond issue for Galveston-Port Bolivar ferry landings.

Miscellaneous Enterprises

Ala., Birmingham—Southern Steel Works, 908 Lucien Ave., has contract for 450 tons of struc. steel for building for Stockham Pipe & Fittings Co.

D. C., Washington—William S. Phillips Construction Co. incorporated; William S. Phillips, 1501 K St., N. W.

Fla., Delray Beach—Southern States Construction Co., capital \$25,000, incorporated; A. E. Elliott, C. E. Link.

Fla., Miami—Miami Life Publishing Co., incorporated; W. R. Phillips, Oscar S. Farmer.

Fla., Miami—Hildebrand Plumbing Co., Inc., chartered; A. L. Hildebrand, 760 N. W. 4th St.

Fla., Miami—Milam Farm Dairy Corp. incorporated; M. A. Milam, 405 S. W. 11th St.

Fla., St. Petersburg—Pinellas Baking Co., capital \$30,000, incorporated; George H. Ponath, Lena Ponath.

Fla., Tampa—Stockholders of Victory National Life Insurance Co. and Gulf Life Insurance Co. approved merger of companies to be known as Gulf Life Insurance Co., with offices in Tampa and Jacksonville, capital and surplus \$600,000, assets more than \$1,000,000; T. T. Phillips, Jacksonville, will be president of new company.

Fla., Tampa—Hillsborough Printing Co., Frank B. Hill, 1109 Tampa St., has low bid from Friend & Bournier, 205 Cass St., for print shop; brick, 1 story, 115x50 ft.; B. C. Bonfoey, Archt., 702 Stovall Professional Bldg.

Fla., West Palm Beach—Plumbing—J. A. Walls, Inc., 4212 Georgia Ave., chartered; J. A. Walls, Sarah M. Walls.

Ga., Atlanta—Directors of Coca Cola Co., 310 N. W. North Ave., have recommended increasing capital by 1,000,000 no par shares of special non-voting \$3 dividend class "A" stock, callable at \$52.50.

Ga., Atlanta—Stoddard Dry Cleaning & Dyeing Co., W. L. Stoddard, Pres., 126 Peachtree St., erect laundry plant and 3-unit store building, Peachtree, Third and Cypress Sts.; plant, rein. conc., brick, 2 stories and basement, built-up roof, 30,000 sq. ft. floor space; store, 1 story and basement, 75x100 ft.

Ga., Columbus—Tom Huston Peanut Co., incorporated, with Tom Huston, Pres.; negotiating for sale of \$400,000 issue of 7% cumulative first preferred stock with Court & Co., Atlanta, Merchants and Mechanics Bank, Columbus, and Fourth National Bank, Atlanta; proceeds will be used to liquidate all mortgage indebtedness and furnish additional working capital; company manufacturers confections, peanut butter, etc.

Ky., Bowling Green—Farmers Tobacco Warehouse Co., capital \$50,000, incorporated; E. P. Harris, Emory G. Dent.

Ky., Louisville—Kentucky Oxygen-Hydrogen Co., Logan and Gross Sts., increased capital, \$500,000 to \$1,000,000.

Ky., Louisville—Mercury Electric Sign Co., 1717 Magazine St., Turney Gratz, Pres., merged with Rainbow Light, Inc., Long Island, N. Y.

Ky., Murray—Galloway Publishing Co., capital \$40,000, incorporated; Joe T. Lovett, Ben S. Keys.

Ky., Owensboro—Brodie-White Tobacco Co., capital \$15,000, incorporated; William Barron, A. J. Brodie.

La., Baton Rouge—Chain Battery & Electrical Service, Inc., incorporated; Cyril J. Nolan, 1345 Laurel St.

Maryland—American Stores Co., Philadelphia, offering 100,000 shares common stock, \$91 per share through Lehman Bros. Commercial National Corp., New York; company has stores in Pennsylvania, District of Columbia, New Jersey, Delaware, Maryland and New York; also manufactures and packs variety of food products including Manufacturing of preserves, mayonnaise, extracts, catsup, ammonia, etc., and packing of tea, rice, cornstarch, vinegar, etc.

Md., Baltimore—Baltimore Cleanser Products, Inc., Munsey Bldg., chartered; B. Sydney Becker.

Md., Baltimore—New Process Casting Co., Inc., chartered; Leo H. Homand, Franklin Bldg.

Md., Baltimore—Maryland Creamery Co., 1726 E. Pratt St., erect \$175,000 addition to adjoin present plant.

Md., Baltimore—Western Electric Co., 195 Broadway, New York, Edgar S. Bloom, Pres., will erect \$15,000,000 plant for manufacture of telephone cable and wire, on 125 acre tract at Point Breeze; property fronts on harbor and extends back to Colgate Creek; company's architects are working on plans for development of property; construction expected to begin soon; first building will be for manufacture of telephone cable, equipped initially for production of 110,000,000 ft. of conductor wire weekly; first building expected to be finished in 1929; company is manufacturing unit of Bell Telephone System; has plants at Hawthorne, Ill., near Chicago, Ill., and at Kearny, N. J.

Md., Baltimore—Home Fire Insurance Co. and National Liberty Insurance Co. of America groups have merged, having combined assets in excess of \$175,000,000; National Liberty group consists of National Liberty Insurance Co. of America, Baltimore American Insurance Co. of New York, People's National Fire Insurance Co., all New York; Home group, which heads new combination, consists of Home Fire Insurance Co., New York; Franklin Fire Insurance Co., Philadelphia; City of New York Insurance Co.; New Brunswick Fire Insurance Co., Nova Scotia; Carolina Insurance Co., Wilmington, N. C.; Harmonia Fire Insurance, Buffalo; Homestead Fire Insurance Co., Baltimore; Georgia Home Insurance Co., Columbus, Ga.

Md., Baltimore—Joseph Natwick, Munsey Bldg., acquired 47 acres on Clarksville Pike west of St. John's Lane; will develop dairy farm; expend \$30,000 to \$40,000 for barns and dairy buildings; construction contract let.

Md., Curtis Bay, Sta. Baltimore—See Land Development.

Md., Hyattsville—Printing—Harmony Press, Inc., chartered; James B. Hess, David B. Mahoney.

Miss., Clarksdale—Ray Strode, Contr., will soon start construction of addition to build-

ing occupied by Clarksdale Daily Register; 2 stories; King & Anderson, owners.

Miss., Jackson—McNair Ice Cream Co., 216 S. President St., erecting plant on E. Hamilton St.; rein. conc., brick, stucco.

Miss., Newton—Kraft-Phenix Cheese Co., 402 Rush St., Chicago, Ill., erect factory, 40x80 ft.; Gauger-Korsmo Construction Co., Contrs., Fidelity Bank Bldg., Memphis, Tenn.

Miss., Vicksburg—S. R. Hughes, 609 Crawford St., erect \$15,000 building to be occupied by Nehl Beverage Co.; pressed brick, 1 story and basement; R. W. Boulton, Contr.

Miss., West Point—Swift & Co., U. S. Yards, Chicago, Ill., H. N. Bates, Local Mgr., let contract to Smallman Construction Co., 1109 Fifth Ave., Birmingham, Ala., for constructing \$200,000 poultry packing, produce and whole milk plant, Stonewall and Cul De Sac Sts.; main structure, including loading docks, will be 140x90 ft., 3 stories, fireproof, brick, conc., platforms on south and west sides of building will permit handling of milk, cream, eggs and chickens brought in by trucks; switch track connections with Illinois Central Ry. on east side; power plant, buttermilk drying equipment and room for poultry and egg receiving and shipping will be housed in separate building; on third floor of main building will be feeding batteries capable of taking care of 20,000 head of poultry at once; pasteurizing equipment on second floor; cheese and butter making machinery and milk and cream receiving space will be on first floor; install one churn unit capable of producing 1800 lb. of butter per day and one cheese vat with capacity of 1000 lb. of cheese daily; refrigerated storage space will be provided on first and second floors.

Mo., California—Swift & Co., United Stock Yards, Chicago, acquired A. B. Cole & Son Co., with cream stations at Lohman, Russellville, Eldon, Bagnell, Clarksburg and Tipton.

Mo., Chillicothe—North Missouri Baking Co. incorporated; M. F. Bench, G. W. Harlan.

Mo., Joplin—Automatic Coal Stoker Co., incorporated; Mary L. Hindman, 214 W. 4th St.

Mo., Kansas City—Midwest Creamery & Dairy Supply Co. incorporated; C. N. Taylor, O. G. Beebe; leased building at 1417-19 St. Louis Ave.

Mo., Kansas City—Kansas City Coca-Cola Bottling Co., H. B. Thompson, Pres., Chicago, erecting building, 2540 Pennway St.; fireproof, 2 stories, 100x251 ft.; install equipment; will increase output to 480 bottles per minute.

Mo., Kansas City—Seidlitz Paint & Varnish Co., Charles N. Seidlitz, Pres., 18th and Garfield Sts., acquired building, 18th St. and Euclid Ave.; will improve and enlarge.

Mo., Kansas City—Brown Printer, Inc., chartered; Edward E. Damon, Ernest F. Brown.

Mo., Kansas City—Meriden Creamery Co., capital \$50,000, incorporated; C. W. Kent, 1014 Greenway Terrace.

Mo., Kansas City—American Butter Co., capital \$50,000, incorporated; L. H. Smith, 2115 E. 25th St.

Mo., St. Louis—Ideal Pump and Mfg. Co., capital \$25,000, incorporated; May Peters, M. K. Block.

Mo., St. Louis—Lewis E. Starke Laboratories, Inc., capital \$50,000, chartered; Lewis E. Starke, 3650 Easton St.

Mo., St. Louis—Holland Laundry Co., 4132 Folsom Ave., erect building, Dunnica St.; brick, 50x125 ft., 1 story and basement; Ernest Hess, Archt., 903 Title Guaranty Bldg.; Wm. H. Schulte, Contr., 2806 N. Grand Blvd.

N. C., Charlotte—City Commrs. let contract at \$35,760 to American La France & Foamite Corp., Elmira, N. Y., for fire fighting equipment.

N. C., Statesville—H. F. Laffon and J. V. Jeffings, both Elkin, acquired Statesville Printing Co.

Okla., Norman—Cleveland County Publishing Co., capital \$15,000, incorporated; Edwin S. Kerrigan, William B. Warren.

Tenn., Memphis—Van Vleet-Ellis Corp., 109 S. 2d St., McKay Van Vleet, Pres., formed by consolidation of Van Vleet-Mansfield Drug Co., Hellig-Ellis Drug Co., 155 S. Front St., both Memphis; Van Vleet-Mansfield Drug Co., 114 S. Gallatin St., Jackson, Miss., and Hellig-Ellis Drug Co., 113 E. Markham St., of Arkansas, Little Rock, Ark.

Tex., Amarillo—Rogers Roofing Co., Inc., capital \$30,000, incorporated; Ed. M. Rogers, B. N. Wadley.

Tex., Brady—S. L. Martin, Waco, acquired Heart of Texas, newspaper.

Tex., Carrizo Springs—C. B. Calahan acquired Carrizo Springs Javelin, newspaper.

Tex., Dallas—Perfection Machine, Tool and Die Co., Inc., capital \$35,000, incorporated; Sam Mirosay, 1327 S. Henderson St.

Tex., Denison—Knaur Cheese Co., capital \$25,000, incorporated; John S. Knaur, Cecil Witten; has building, will establish plant for manufacture of cream and cottage cheese; will have capacity of handling 30,000 lb. of milk daily; installing machinery.

Tex., Elena—Tyrrell & Garth Investment Co. erect \$50,000 fig preserving plant with season capacity of from 1,500,000 to 2,000,000 lbs. of figs; plant will be operated by steam and electricity; figs will be cooked and canned in metallic and glass containers; also can other products; F. O. Holcombe, League City, will be manager of plant.

Tex., Plainview—Hale County Dairy Assn. will soon let contract for creamery building.

Tex., San Angelo—Building—Porter-Fensley, Inc., chartered; E. D. Porter, A. D. Fensley.

Tex., San Angelo—Snowwhite Creamery Co., H. C. Vandervort, Mgr., selected Roy I. Hamberlin, Archt., to draw plans for \$75,000 building to be erected at Second and 6th Sts.

Tex., San Marcos—Dr. J. J. Johnson acquired San Marcos Chick Hatchery.

Tex., Shamrock—Shamrock Creamery, capital \$25,000, incorporated; O. T. Nicholson, H. P. Kuhlman.

Tex., Temple—Bell Ice Cream Co. plans extensive improvements to plant; install new equipment.

Tex., Victoria—Victoria Poultry Co., recently incorporated, let contract to Mike Gray for erecting \$30,000 poultry dressing plant, along Highway No. 12.

Va., Martinsville—Cross Laundry Co. increased capital, \$15,000 to \$100,000.

Tex., Waco—Home Builders Foundation, Inc., chartered; C. R. Fargo, C. E. Applegate.

Tex., Wichita Falls—American Battery Products Corp. plans erecting plant.

Va., Soudan—J. A. Marrow Construction Co., capital \$25,000, incorporated; J. A. Marrow.

W. Va., Huntington—Sterling Co., 21st St., Harry A. Frenzel, Mgr., subsidiary of Reliance Mfg. Co., Chicago, plans enlarging factory; company manufactures women's dresses and aprons.

W. Va., Huntington—General Engineering Co., incorporated; T. J. Bartrug, 519 Madison Ave.

W. Va., Huntington—Burning Creek Fuel Co., capital \$25,000, incorporated; A. W. Fitzwater, Coal Exchange Bldg.

W. Va., Parkersburg—Implement & Supply Co., capital \$25,000, incorporated; F. C. Devel, 218 Market St.

W. Va., Parkersburg—Parkersburg Corrugated Box Co., Depot St., will enlarge plant to increase capacity 50%; will soon let contract for 300x50 ft. addition.

W. Va., Ronceverte—Valley Feed and Supply Co., incorporated; J. W. Morris, J. H. Yates.

W. Va., Spencer—Chamber of Commerce, Everett S. Snett, Sec., interested in establishing garment factory.

W. Va., Wellsburg—Pillsbury Flour Mills, Inc., Minneapolis, Minn., reported, acquired Harvey Paper Co.; plans expending \$250,000 for improvements to plant to manufacture heavy paper bags for packing flour.

Motor Bus Lines and Terminals

Ark., Little Rock—Southwestern Transportation Co., Daniel Upthegrove, Pres., St. Louis, Mo., subsidiary of St. Louis Southwestern Ry. Co., acquired Smith Bus Line, operating from Pine Bluff to Camden; Bremen Bus Line, which extends from Little Rock to Stuttgart and Gillette and Stuttgart to Pine Bluff; Beakle Bus Co., which operates from Camden to Texarkana, and Mathis Line, which runs from Jonesboro to Missouri State line.

Okla., Tulsa—City granted 15-yr. franchise to Union Transportation Co. and Berry Bus Line Co., 322 S. Chey St., to operate motor-bus lines.

Motor Cars, Garages, Filling Stations

Ala., Birmingham—E. L. Camp and R. E. Whaley, 1012 Highland Ave., erect store and filling station; cost \$25,000, brick, tile, 1 story, conc. floors, built-up roof; Harrison Richardson, Contr., 234 Brown Marx Bldg.

Ala., Selma—Mrs. Norman Ward Frost and Mrs. W. C. Ward let contract to E. N. Smyly & Sons for constructing garage to be occupied by McGough Motor Co.; brick, 1 story, tile floor.

Ark., Fort Smith—F. E. Coulter, 2219 N. 13th St., erect filling station, High and Armour Sts.

Ark., Fort Smith—Hopkins Oil Co., care Luthers Hopkins, Rogers Ave., erect filling station.

Ga., Atlanta—George A. Clayton Co., Bona Allen Bldg., remodel building, Pryor St., to be occupied by Bell Bros. Garage; cost \$20,000; Morgan, Dillon & Lewis, Archts., Grant Bldg.

Ga., LaGrange — E. R. Taylor Motor Co., let contract to Daniel Lumber Co., at \$23,450 for constructing garage; 1 story and part basement, 100x150 ft., conc., brick; built-up roof, conc. floors; Lockwood & Poundstone, Archts., Forsyth Bldg., Atlanta. 10-25

La., Lake Charles—Copeland's Buick Co., Inc., capital \$20,000, chartered; R. S. Copeland, M. A. Vincent.

La., New Orleans—Fortson Motors, Inc., capital \$40,000, chartered; Edward W. Backer, 2007 S. Lopez St.

La., Ponchatoula—Ponchatoula Motor Co., Inc., V. E. Prebeant, Sr.

La., Shreveport—Sparco Gasoline Co., Inc., incorporated; J. B. Atkins, 236 Gladstone Blvd.

Md., Baltimore — Thomas Mullan, 3945 Greenmount Ave., erect \$20,000 automobile salesroom, Alsquith and 20th Sts.; brick, conc., 145x80 ft., built-up fireproof roof; owner builds.

Md., Baltimore — Repossessed Car Corp., 1727 N. Charles St., incorporated; James H. Gaither, 3209 Brightwood St.

Miss., Meridian—Sowashee Building Corp. has low bid from L. W. Hancock, for erecting building to be occupied by Meridian Motor Co.; brick, built-up comp. roof, conc. and wood floors.

Mo., Kansas City—Ervin Feld Motor Co., Inc., chartered; Ervin W. Feld, 5027 Wyandotte St.

Mo., Kansas City—North East Nash Co., capital \$15,000, incorporated; B. L. Williams, 4328 Montgall St.

Mo., Springfield—J. P. Cantrall, 1794 N. Grant Ave., erect \$20,000 garage addition; conc., steel, brick, fireproof, 60x131 ft., 1 story and basement, cement floors, comp. roof; Heckenlively & Mark, Archts., 642 Landers Bldg.

Mo., St. Louis—Carondelet Motor Co., 3867 S. Grand St., incorporated; F. E. Stevens, 3614 Dunnica St.

Mo., St. Louis — Elmer J. A. Schneider Realty Co., 5452A Gravois Ave., erect \$10,000 garage, 4911 Neosho St.; brick, 30x95 ft., 1 story, comp. roof, owner builds.

Mo., St. Louis—Morris Rotary Motors Co., incorporated; C. W. Schorr, 3056 Bellerive St.

N. C., Hendersonville — Kay-Heller-Buick Co., capital \$50,000, incorporated; W. O. Kay, Thomas J. Heller.

Okla., Duncan—Bennett Auto Supply Co., capital \$25,000, incorporated; Clark R. Bennett, W. E. Bennett.

Okla., Tulsa — Barry-Hopkins Motor Co., capital \$25,000, incorporated; J. H. C. Hopkins, 1772 South Boston St.

Okla., Watonga—H. K. Motor Co., incorporated; H. Klingler, Watonga; C. C. Hostutler, Custer City.

Tenn., Nashville—R. R. Ogilvie, American Trust Bldg., remodel and convert 7-story building into garage, 222-6 Third Ave.; cost \$50,000.

Tex., Austin—Paul O. Simms erecting \$16,000 garage, 312 W. Sixth St.; brick, tile, steel, 1 story, conc. floor.

Tex., Goose Creek—Tri-City Buick Co., Inc., chartered; C. J. Bailey, C. C. Merchant.

Tex., Houston—Schultz Motor Co. incorporated; J. V. Martin, Esperson Bldg.

Tex., Pampa—Grayco Gasoline Co. incorporated; A. McClory, R. C. Snowden.

Tex., Plainview—C. G. Goodman erecting brick building to be occupied by Lock Motor Co.; 100x140 ft.

Tex., San Angelo—Theo. Montgomery and J. E. Young erect \$26,000 building at Fourth and Chadbourne Sts., to be occupied by Harris Motor Co.; 65x150 ft., conc., brick.

Tex., Sanderson—Casner-McKnight Motor Co. incorporated; J. E. Casner, C. V. McKnight.

Tex., Sarita—Kenedy Pasture Co. will erect 2 garages; brick, reln. conc., 1 story.

Tex., Waco—Waco Motor Co., capital \$20,000, incorporated; F. L. Dennison, T. D. Walling.

Va., Cullen—B. L. Jordan Motor Co., capital \$50,000, incorporated; B. L. Jordan.

Va., Franklin — Scott-Rogers Motor Co., Inc., capital \$25,000, chartered; C. A. Scott.

W. Va., Clarksburg—Jarvis Oil Co. erect filling station, Pike St.

W. Va., Elkins—Clarkson Motor Sales Co., capital \$30,000, incorporated; Harry N. Clarkson, Caroline C. Arter, both Charleston.

W. Va., Parkersburg—Parkwood Tire Co. erect \$25,000 building; brick, steel, conc., 1 story, L shape.

Railways

Florida—Florida East Coast Ry. Co., H. N. Rodenbaugh, V. Pres., St. Augustine, rebuild railway line between Pahokee and Belle Glade, which was damaged by storm.

Louisiana—Missouri Pacific R. R. Co., L. W. Baldwin, Pres., St. Louis, Mo., authorized installation of 271 miles of additional automatic block signals, cost about \$1,000,000; lines to be protected include main track from Kansas City to Atchison, Kan., and from Osawatimie to Coffeyville through Durand, Kan., Illinois division and Uralia to Alexandria, La.; will protect 1507 m.les.

Tenn., Chattanooga—Interests represented by John A. Chambliss acquired Tennessee, Alabama and Georgia Ry.; plans extensive improvements so that new and larger locomotives than are now being used could be placed in operation.

Tex., Houston—Navigation Dist. Comms. receive bids Dec. 8 for constructing approximately 4.3 miles of public belt railroad on south side of Ship Channel; specifications, etc., from Port Director, Fifth Floor Courthouse.

Tex., Lockney—Interstate Commerce Comn. granted permission to Fort Worth & Denver City Ry. Co., Hale Holden, Pres., Chicago, Ill., to construct extension in Lockney, Floyd county.

West Virginia—Interstate Commerce Comn. authorized Chesapeake & Ohio Ry. Co., W. J. Harahan, Pres., Richmond, Va., and New York Central, P. E. Crowley, Pres., New York, to extend new lines into West Virginia coal territory; also authorized jointly to acquire Nicholas, Fayette and Greenbrier R. R. Co., which subsidiary will undertake construction, running lines into Nicholas and Fayette counties; Nicholas, Fayette and Greenbrier R. R. Co. was authorized to issue \$400,000 of its capital stock or cash to New York Central and Chesapeake & Ohio, and in addition to issue \$3,600,000 6% notes.

Railway Shops and Terminals

Tex., Smithville—Missouri-Kansas Texas Lines, Railway Exchange Bldg., C. Halle, Pres., St. Louis, Mo., erect 8 stall roundhouse, machine shop 80x80 ft., storehouse 30x100 ft., laboratory 28x45 ft., and other buildings; brick, frame, conc. floors, frame roof; cost \$140,000; A. L. Sparks, Archt., 1528 Ry. Exchange Bldg., St. Louis, Mo.; T. H. Johnson, Gen. Contr., 522 N. Texas Bldg., Dallas; T. H. Johnson, N. Texas Bldg., Dallas, has contract for electric light and power; and G. E. Harris & Co., 109 W. Jefferson St., Dallas, contract for plumbing. 11-1

Va., Roanoke—See W. Va., Elmore (Sta. Tralee).

W. Va., Elmore (Sta. Tralee)—Virginian Railway Co., C. H. Hix, Pres., Norfolk, Va., plans enlarging yards; may enlarge yards at Roanoke, Va.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Bay Minette—Baldwin County Bd. of Revenue, G. W. Humphries, Chmn., receives bids Nov. 12 for 11.4 mi. road between Robertsedale and Eastern Shore; 70,000 cu. yd. excavation, 20,000 lin. ft. 1x8 gutter, 634 lin. ft. 18 to 36 in. pipe, 40,500 lb. reln. steel in culverts.

Ala., Birmingham — City, Comn., Eunice Hewes, Clk., plans paving Twelfth, Seventeenth, Sixteenth St. and Seventh Ave., installing sanitary sewers in North East Lake and Woodlawn; A. J. Hawkins, City Engr.

Ala., Mobile—City Comn., Leon Schwarz, Mayor, plans receiving bids latter part of Nov. on \$2,000,000 Twenty-sixth Street Improvement venture; Wright Smith, City Engr. 10-11

Ala., Mobile—City Comms., S. H. Hendrix, Clk., receive bids Dec. 11 for 165,630 sq. yd. one course conc. pavement, 108,255 lin. ft. conc. curbing, 46,191 cu. yd. excavation; 15,400 sq. yd. vitrified brick paving, 5-in. conc. base, 1510 sq. yd. conc. gutters and driveways, 9480 lin. ft. conc. curb, 4549 cu. yd. excavation, 219,130 sq. yd. 2-in. top binder, or 2-in. top Warrenite bitulithic on 5-in. conc. base; 133,380 lin. ft. conc. curb, 28,880 sq. yd. conc. gutters and driveways, 61,919 cu. yd. excavation; Wright Smith, City Engr.

Ala., Montgomery—City, J. L. Cobbs, Treas., receives bids Nov. 13 to improve Gilmer Ave., Fielder to Fairview Ave.; 6300 sq. yd. asphalt, bitulithic conc. or asphaltic pavement, 3090 lin. ft. 5x18-in. granite curb, 1000 lin. ft. 8-in. sanitary sewers; manholes, storm sewers, inlets; J. M. Garrett, City Engr.

Ala., Wetumpka—Elmore County Comms., G. W. Howard, Judge of Probate, receive bids Nov. 6 for 11 mi. grading, draining, Electric to Tallapoosa County line; 79,150 cu. yd. excavation, 102-ft. timber conc. bridge over Channee Hatchee Creek; 34 lin. ft. timber conc. bridge over Gold Branch.

Ala., Gadsden — State Highway Comn., Woolsey Finnell, Dir., Montgomery, receives bids Dec. 3 to grade and drain road between Gadsden and Glencoe; 29,000 cu. yd. excavation, 6300 lb. rein. steel.

Ark., Little Rock—City, Horace A. Knowlton, Clk., considering creating improvement dist. connecting Pulaski Heights and downtown section of Little Rock; 5 mi. road from Cross St. and Lincoln Ave. to Q St. at western city limits.

D. C., Washington—Dist. Comms. approved resurfacing 4 streets: Fuller, Irving and U Sts. and Wyoming Ave.

Florida — State Road Dept., Tallahassee, received low bids for 12 roads: Leon County —0.92 mi. plain cement conc. or alternate types of asphaltic surface, Florida limerock base, Road No. 1, Tallahassee to Ochlockonee River, J. B. McCrury Co., Bankhead Ave., Atlanta, Ga., \$189,673; Gadsden County—14.97 mi. plain cement conc. surface, Road 1, Ochlockonee River to Quincy, R. H. Lassiter, Barnett Bldg., Jacksonville, \$205,916; Jefferson County—10.17 mi. Road 42, Monticello to Lamont, R. J. Carroll, Lamont, \$63,171; 9.45 mi. Road 96, Monticello to Waukenah. Curry & Turner, Bradenton, \$61,700; 5.18 mi. Road 96, Waukenah to Wacissa, Bishop Construction Co., Monticello, \$26,690; Walton County—Road 40, grading, draining sand-clay surface, 2 projects, Walter J. Bryson; Walton County—6 roads to W. J. Bryson Paving Co., W. Fourteenth St., Jacksonville; 3 sections grading, draining and sand-clay surface, Road 40, \$48,854, \$57,306 and \$118,493, respectively; Road 10—grading draining, same contractor \$149,340; Road No. 40—Penton Mathis Construction Co., Paxton, \$63,256; Road 33—grading, draining, Walter J. Bryson Paving Co., \$43,066; Road 115—grading, draining, same contractor, \$69,628. 10-11

Florida—State Road Dept., Tallahassee, receives bids Nov. 27 for drainage structures on roads in 9 counties.

Fla., Fort Lauderdale—Broward County Road Dept., plans 2 mi. road from West Dixie Highway, west; one bridge on West Dixie Highway, and one across main drainage canal of Plantation Drainage Dist.

Fla., Miami—Dade County Comms. receive bids Nov. 14 for 28½ mi. rock road, Dist. No. 1.

Ky., Danville — State Highway Comn., Frankfort, receives bids Dec. 5 for Perryville-Springfield road, Boyle County; J. S. Watkins, State Highway Engr.

Ky., Frenchburg—State Highway Comn., Frankfort, plans expending \$15,000 on road from Frenchburg, Menifee County, toward Yale; J. S. Watkins, State Highway Engr.

Ky., Owensboro — Davies County Fiscal Court plans graveling 2 roads: 11-3 mi. Smith road from Livermore road to Tuck; 1.6 mi. Carter road, Parrish Ave. to Big Ditch Bridge; J. W. Spurrier, County Engr.

La., Bastrop—Louisiana Highway Comn., Baton Rouge, received low bid from Hammit & Salter, Natchitoches, \$34,836, for 7.24 mi. gravel Bastrop-Hamburg Highway, Morehouse Parish. 10-11

La., Benton—Louisiana Highway Comn., Baton Rouge, receives bids Nov. 22 for 4 sections of Bossier City-Minden Highway, Bossier and Webster Parishes: No. Bo-4-A—4.095 mi. Bossier-Webster Parish line to Fillmore at intersection of gravel road leading north to Benton; No. Bo-4-B—6.468 mi. Fillmore to east end of Red Chute Bayou Bridge; No. Bo-4-C—6.427 mi. east end of Red Chute Bayou Bridge to west city limits of Bossier City; No. We-4-A—872 mi. Webster-Bossier Parish line to intersection of gravel road leading to Doy line; conc., Warrenite bitulithic, bit. conc., sheet asphalt, cold mixed

limestone rock asphalt on conc. base; J. M. Fourmy, State Highway Engr.

La., Crowley—City, H. G. Brunson, Mayor, plans 2 mi. conc. paving; subsurface drainage; Merrill Bernard, City Engr.

La., Monroe—City considering widening De Siard 10 to 20 ft. east of Five Points.

La., Tallulah—Madison Parish Police Jury considering several miles hard surfaced roads. See Financial News.

La., Westwego—Louisiana Highway Comm., Baton Rouge, received low bid from John Boelins, 102 Wilson St., Baton Rouge, to rebuild 888 sq. yds. conc. sidewalk on Sala Ave. 11-18

Maryland—State Roads Comm., Baltimore, received low bids for 3 roads: Frederick County—1.35 mi. conc., Middletown-Burkittsville road to Broad Run, M. J. Grove Libe Co., Lome Kiln, \$25,173; Prince George's County—1.533 mi. gravel, end of Cont. P-85 to Horsehead, Jarboe-Houghton, Mechanicsville, \$6,649; Montgomery County—3 mi. conc. between Georgia Ave., Colesville, and D. C. Line, Sixteenth St., Loomis Construction Co., 1014 N. W. Wisconsin Ave., Washington, D. C., \$15,228. 10-25

Md., Baltimore—City, Bd. of Estimates, approved expending \$54,950 to repave Bond St., Baltimore to Madison; Hampden Ave., Twenty-sixth to Twenty-seventh; Nathan L. Smith, Highways Engr.

Miss., Hattiesburg—State Highway Comm., Jackson, receives bids Nov. 22 for road system, etc., at State Teachers' College.

Miss., Macon—Noxubee County Bd. of Supvrs. plans expending \$75,000 in Dist. 5 for road through county from Lauderdale County line north and intersecting Shuqualak road on southern boundary. See Financial News.

Miss., Macon—City, Mary B. Scott, Clk., receives bids Nov. 19 for 10,500 sq. yd. conc., vibrolithic conc.; cold rock, Warrenite bitulithic, rock asphalt cold, sheet asphalt, asphaltic conc. or brick on conc., crushed rock or gravel base, 7500 lin. ft. curb, 3800 sq. ft. sidewalk, 2200 sq. ft. driveway, 800 ft. 15 and 24 in. D.S.T.C. pipe, catch basins, manholes, 1650 ft. 6-in. C.I. water mains, etc.

Mo., Independence—Jackson County plans improving 2 sections of Oak Grove road; Sec. 3—grade and 41,894 yd. conc. pave; Sec. 4—47,223 yd. conc. pave; L. Koehler, Highway Engr.

Mo., Joplin—City Council plans conc. sidewalks on Wall St., Thirty-sixth to Thirty-first St.

Mo., Springfield—Regents of State Teachers College of Springfield, Walter G. Rathbone, Pres., receive bids soon for hard surfaced walks and paving on 10-acre campus.

Mo., Springfield—City, C. A. Dickerson, Clk., plans 3540 ft. sidewalks on St. Louis St., Delaware Ave. to Glenstone; 3596 yd. paving Pine St., Boonville Ave. to Main Ave.

Mo., St. Joseph—City receives bids soon for 905 sq. yd. brick on conc. paving, Middleton St.; 10,800 sq. yd. conc. paving, Forty-first St., etc.; R. Dunlap, Engr.

Mo., St. Joseph—City, Bd. of Public Works, received low bids from Land Construction Co., to resurface Middleton; from Fred Elststadt, to pave alleys between Sixteenth and Seventeenth St., and between Monterey and Sacramento St. 9-6

Mo., St. Louis—City, Bd. of Public Service, considering widening to 80 ft. and paving Hampton Ave., Oakland to Gravois Ave.; also plans viaduct to carry Hampton Ave. over Manchester Ave., Frisco R. R. tracks and River des Peres; cost \$206,438; E. R. Kinsey, Pres.

North Carolina—State Highway Comm., Raleigh, received low bids for 2 top soil and sand-clay roads: Davie County—6.89 mi. Route 80, Mocksville to Rowan County line, Powell Paving Co., Inc., Watch Bank Bldg., Winston-Salem, \$26,388; Rutherford County 11.19 mi. Route 19, Rutherfordton to McDowell County line, M. A. Kollock, Henderson, \$61,686; structures, W. B. Collins, Raleigh, \$16,417. 10-11

North Carolina—State Highway Comm., Raleigh, receives low bids for 5 roads, totaling \$605,244: Johnson and Wake Counties—19.13 mi. Route 220, Selma to intersection, Route 91, Beal Brothers, Bear Creek, \$99,356; structures, J. L. Brinkley, Thomasville, \$29,048; Guilford County—3.70 mi. Route 10, High Point to Davidson County line, C. B. Hester, Greensboro, \$29,374; structures, J. L. Brinkley, \$11,822; 17.47 mi. Route 61, Randolph County line to intersection, Route 60, W. C. Carter, Mabane, \$100,414; structures, Kiker & Yount, Reidsville, \$49,674; Catawba County—9.27 mi. Route 16, Conover to Alexander County line, M. A. Kollock, 713 W. 5th Ave., Hendersonville, \$45,092; structure, J. F. Kitchen, St. Pauls, \$17,325; Lincoln County—14.77 mi. Route 27, Lincolnton to Route 18, Nello L. Teer, Geer Bldg., Durham, \$77,820; structures, Stewart Jones Co., Rock Hill, S. C., \$35,721. 10-11

N. C., Raleigh—State Highway Comm., Frank Page, Ch. Highway Commr., approved plans to widen State Highway No. 10, 18 to 40-ft. from point west of Raleigh to State fair grounds.

Okla., Chickasha—City plans grading, 34,000 sq. yd. conc. paving, Mississippi, Nevada and Montana St.; \$25,000; R. O. Bradley, Engr.

Okla., El Reno—City Mgr. Fassett, plans receiving bids to curb, gutter and surface Bickford and Rock Island Ave.

Okla., Hollis—Harmon County Commrs. considering expending \$325,000 for 2 conc. roads east and west and north and south across country. See Financial News.

Okla., Lawton—City plans expending \$25,000 for grading, 8800 sq. yd. conc. paving, Second St.; O. E. Noble, Engr.

Okla., McAlester—State Highway Dept., Oklahoma City, preliminary plans for grading 8 mi. State Highway 43, Pittsburg County; C. R. Mandigo, Highway Engr.

Okla., Muskogee—City, Hugh Dickson, City Engr., receives bids Nov. 12 for street widening; 8,692 sq. yd. plain conc.; separate curb in Dist. No. 204. 11-1

Okla., Newkirk—Kay County Commrs. receive bids Nov. 15 for 2 roads: 4 mi. grading, Kildare-Uncas road; ½ mi. extension road east of Wentz Boy Scout camp, northeast of Ponca City; Joe Clark, County Engr.

Okla., Oklahoma City—City, M. Peshek, Jr., Clk., plans widening Dewey Ave., Main St. to California Ave.; paving Laird Ave., Twenty-sixth to Twenty-eighth; pave Granger Ave., Helm Ave. to Forty-third St.; received low bid from Western Paving Co., Petroleum Bldg., \$2.85 per yd., to pave Eighteenth, Nineteenth, Twenty-first, Twenty-second St., and Harden Drive; W. W. Small, City Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans paving streets in 8 districts, including Virginia, Robinson Ave., Thirty-second, Eighteenth, Nineteenth St.; W. W. Small, City Engr.

Okla., Seminole—City plans grading, 6800 sq. yd. conc. paving, Dist. 16; R. S. Decker, Engr.

Okla., Tulsa—City Comm. received low bid from H. L. Cannady Co., 1122 S. Lewis St., \$1.97 per sq. yd., for 7-in. plain conc. paving on Wheeling Ave., Haskell to St. Louis & San Francisco R. R., Dist. No. 903

Okla., Wewoka—Seminole County plans improving road to Shawnee-Seminole Highway.

S. C., Aiken—City Comm., Frank P. Henderson, Mayor, and Chmn. of Comm., receives bids Dec. 4 for 3 mi. street paving, 1½ mi. storm sewer laterals, 1½ mi. trunk storm sewer, 2 mi. sanitary sewer outfall; plans on file after Nov. 19 from City Clk.; Elroy G. Smith, 313 Herald Bldg., Augusta, Ga., and Harry Sudlow, Aiken, S. C., Associate Engrs.

S. C., Greenwood—Greenwood Highway Comm., John B. Sloan, Chmn., receives bids Nov. 13 for 5 mi. graded and topsoiled road, Cunningham Creek to Callison; 30,500 cu. yd. excavation, 9000 cu. yd. topsoil.

S. C., Walterboro—Colleton County plans sand-clay on 3 roads, totaling 52 miles; 4 mi. Route 36, Bamberg County line to bridge over Salkehatchie River; 28 mi. Route 65, Bamberg County line near Sandy Island Bridge via Cannady's Cross Roads to Edisto River at Glyhans; portion of Route 64, Walterboro via Cottageville to Colleton County line at Edisto River; estimated cost \$200,000.

Tenn., Chattanooga—City Commrs., R. H. Crox, Commr., considering widening Rossville Ave. to 70 ft., Central Ave. to Main St.

Tenn., Cookeville—Dept. of Highways and Public Works, Nashville, considering placing crushed stone on Cookeville-to-Crossville Highway, Route 42.

Tenn., Knoxville—City, Otto Roehl, Mgr., grading Island Home Ave., Sevier Ave. to Island Home park; will pave.

Tenn., Nashville—City, Bd. of Public Works, S. M. McKay, Clk., receives bids Nov. 13 for curbs and sidewalks on Third Ave., public square to Louisville & Nashville R. R.; curb, sidewalks and gutters on Gay St., Second to Third Ave.

Tenn., Ripley—Lauderdale County Hard Roads Comm. plans expending \$1,000,000 for 90 mi. gravel roads.

Tenn., Shelbyville—City plans \$50,000 for street improvements. See Financial News.

Texas—State Highway Dept., Austin, receives bids Nov. 19 for 4 roads: Archer County—7.83 mi. grading, draining, highway across county, Baylor to Young County line; Knox County—19.25 mi. grading, draining, Benjamin to Baylor County line; Leon County—12.12 mi. grading, draining, Centerville to Madison County line; Sterling County—

12.29 mi. grading, draining, Sterling City to Coke County line; Gibb Gilchrist, State Highway Engr.

Texas—State Highway Comm., Austin, receives bids Nov. 19, tentative date, for 3 roads: Young County—5.041 mi. grading, draining Highway 24, Olney to Archer County line; Guy R. Johnston, Res. Engr.; Gollad County—16.959 mi. grading, draining Highway 12, Gollad-Beeville road, Gollad to Bee County line; Henry C. Porter, Res. Engr.; Johnson and Parker Counties—7.5 mi. gravel surface, Highway 10, through Johnson and Parker Counties; Gibb Gilchrist, State Highway Engr.

Tex., Abilene—Taylor County, Tom K. Epley, Judge, plans \$750,000 road building. See Financial News.

Tex., Anderson—State Highway Comm., Austin, receives bids Nov. 19 for .468 mi. grading, draining, from Sta. 791 to Montgomery County line, Grimes County; J. R. Spiller, Res. Engr.; Conroe; Gibb Gilchrist, State Highway Engr.

Tex., Anson—Jones County plans \$750,000 road building. See Financial News.

Tex., Bay City—Matagorda County, A. Harris, Judge, receives bids soon for 1.502 mi. grading, draining, Highway 58, Sta. 1587 plus 15, Palacios to Texas National Guard Army Camp; E. N. Gustafson, County Engr.

Tex., Benjamin—State Highway Comm., Austin, receives bids Nov. 19 for 19.256 mi. grading, draining, Highway 24, Knox County, Benjamin to Baylor County line, 205.236 cu. yd. excavation, 35,723 lb. rein. steel; H. S. Kerr, Res. Engr.; Gibb Gilchrist, State Highway Engr.

Tex., Canyon—Randall County, B. F. Fronabarger, Judge, plans .801 mi. grading, draining, Highway 33, Canyon to end of Federal Aid Project No. 60-B, \$5,750; A. E. Dyatt, County Engr.

Tex., Clarendon—Donley County Commrs. Court plans expending \$1,000,000 to pave 4 roads: Highway No. 5, or Colorado to Gulf Highway through county; Highway 88, north county line to south county line; Highway 75, or U. S. Highway 86, across north end of county; Highway 55 east from Hedley, relocate and improve; improve lateral roads in 4 precincts, including Precincts 3 and 4. See Financial News.

Tex., Corpus Christi—Nueces County, Nat. Benton, Judge, plans \$200,000 road building in Port Aransas Dist. No. 11. See Financial News.

Tex., Corpus Christi—Nueces County, T. M. Lawrence, Commr., plans grading 5 streets with dirt, and placing culverts, on North Beach; Calvin Cocke, County Engr.

Tex., Corpus Christi—City plans widening Staples St. 60 ft. to 80 ft. and pavement 30 to 60 ft.; cost \$98,000; H. L. Shaw, City Engr.

Tex., Corpus Christi—City plans \$200,000 paving. See Financial News.

Tex., Dallas—State Highway Comm., Austin, receives bids soon for Northwest Highway from Dallas through Tarrant, Denton and Wise Counties to Rhame, Wise County; Gibb Gilchrist, State Highway Engr.

Tex., Dallas—City Comm., E. R. Burt, Mayor, plans paving Thirteenth St. and Lancaster Ave., in Oak Cliff.

Tex., Denton—Denton County, Brent C. Jackson, Judge, plans 8.326 mi. grading, bridges, Highway 40, end of Federal Aid Project No. 117 to Dallas County line; L. C. McCanlies, Res. Engr.

Tex., Edna—Jackson County, John T. Vance, Judge, plans 1.571 mi. grading, draining, Highway No. 12, through Navidad River bottoms; D. K. Shepard, Res. Engr.

Tex., Edinburg—Hidalgo County, Cam Hill, Clk., receives bids Nov. 26 for 35 mi. Pharr-San Juan Dist., Hidalgo Road Dist. No. 8; P. S. Devine, County Engr. 11-1

Tex., El Paso—El Paso County, E. B. McClintock, Judge, plans 20.005 mi. grading, draining, gravel or broken stone surfacing Highway 130, Hueco Mountains to Buckhorn Draw, cost \$160,000; F. E. Wilson, Engr.

Tex., Floydada—Floyd County plans expending \$400,000 for road building. See Financial News.

Tex., Fort Worth—State Highway Comm., Austin, receives bids, probably Nov. 20 for 2 roads: 1.115 mi. Federal Aid Project No. 510-B, west corporate limits of Fort Worth to point 1 mi. into city; State Aid Project No. 711-C, from end of Federal Aid Project to Byars St., two 28-ft. strips of 2½-in. bit. filled brick pavement, conc. base, curb, Tarrant County; S. D. Shannon, County Judge; D. A. Davis, Engr.

Tex., Galveston—Galveston County, E. B. Holman, Judge, plans \$700,000 to build, maintain and operate macad., graveled or paved roads and turnpikes. See Financial News.

Tex., Galveston—City Comm. received low bid from Moeller & Roberts, \$2.20 per sq. yd., for 1310 sq. yd. conc. paving, Ave. G. Forty-fifth to Forty-sixth. 11-18

Tex., Houston—City, Mrs. W. H. Westerman, Acting Sec., received low bid from Scott Shambaugh, 1401 Dowling St., \$121,045, to pave Brunner Ave. and Lowell St. from H. & T. C. tracks to Twentieth St. 10-25

Tex., Houston—City, Mrs. W. H. Westerman, Acting Sec., plans receiving bids soon to pave 1 1/4 mi. MacGregor Drive, Calhoun road to Scott St., \$130,000; 144-ft. rein. conc. MacGregor Drive Bridge across Brays Bayou Riverside Terrace, 35 ft. wide, \$20,000; City Bridge Engr. MacKenzie; J. C. McVea, City Engr. 10-25

Tex., Madisonville—State Highway Comm., Austin, receives bids, probably, Nov. 20 for 19,658 mi. rein. conc. paving, Highway 32, Leon County line to Walker County line; A. McCormick, Res. Engr.; Gibb Gilchrist, State Highway Engr. 11-18

Tex., Rockdale—Milam County, Jeff T. Kemp, Judge, Cameron, and city of Rockdale, W. E. Gaither, Mayor, plan 2 roads: 490 mi. conc. Highway 44, Davilla St. to city limits of Rockdale; 1,232 mi. rein. conc. Highway 43, through Rockdale; B. S. Gentry, Engr. 11-1

Tex., Rusk—Cherokee County, J. J. Bolton, Judge, plans 5.948 mi. grading, bridges, Highway 37, Jacksonville, to north line of Road Dist. No. 1; G. A. Bracher, Res. Engr. 11-1

Tex., San Antonio—City, Fred Fries, Clk., plans widening Hildebrand St. to 40 ft. with 10-ft. additional bridge path from San Antonio River, Brackenridge Park to Divine Road. 10-25

Tex., San Antonio—City, Fred Fries, Clk., receives bids Nov. 12 to improve Commerce St., Mittman to Rio Grande; I. Ewig, City Engr. 10-25

Tex., San Antonio—City, Fred Fries, Clk., received low bid from Jagoe Construction Co., Allen Bldg., Dallas, \$30,660, for 146,000 sq. ft. sidewalks, and \$39,000 for 60,000 ft. curb. 10-25

Tex., Sterling—Sterling County, B. F. Brown, Judge, plans 21 mi. grading, draining Highway 9, Sterling City, north, cost \$132,000; T. J. Kelly, Engr. 10-25

Tex., Sweetwater—Nolan County, A. S. Mauzey, Judge, plans 7.819 mi. gravel base, double bit. surface treatment, Highway 70, Blackwell to State Aid Project 534-C, estimated cost \$81,800; S. C. Dougherty, County Engr. 10-25

Va., Gloucester—State Highway Comm., H. G. Shirley, Chmn., Richmond, receives bids Nov. 22 for 7 mi. grading, draining road from Gloucester Courthouse, Gloucester County, 26,963 cu. yd. excavation, 2216 lb. rein. steel. 10-25

Va., Hopewell—City, Roy S. Braden, Mayor, plans expending \$150,000 for street from end of new Petersburg pike into Hopewell; build bridge. 9-13

Va., Lynchburg—City plans widening Campbell Ave., Twelfth to Thirteenth, 19 to 32 ft., with conc. base; started grading. 9-13

Va., Norfolk—City, I. Walke Truxton, Mgr., considering extending Boush St. beyond Olney road, to connect with Llewellyn Ave. 9-13

Va., Richmond—City, R. Keith Compton, Dir. of Public Works, considering extending Riverside Drive on south side of river, Gamble's Hill to Riverside Park; Mill road, widen and extend Franklin St. westward. 9-13

Va., Sussex—State Highway Comm., R. G. Shirley, Chmn., Richmond, receives bids Nov. 13 for 2 mi. gravel road, near Jarrett, Sussex County; 37,250 cu. yd. excavation. 10-25

Contracts Awarded

Ala., Birmingham—City Comm., Eunice Hewes, Clk., let contract to Walter H. Bryson Paving Co., W. 14th St., Jacksonville, Fla., to pave Ninth Court; Newell Construction Co., Martin Bldg., Birmingham, \$16,416, to pave Tenth Ave., North; Morgan-Hill Paving Co., Woodward Bldg., Birmingham, \$15,349, to pave Twenty-sixth St. 10-25

Fla., Lake Wales—A. E. Campbell has contract to grade, curb and pave with bit. wearing surface on limerock base Tenth St., from Burns Ave. to city limits. 10-25

Fla., Miami Beach—City, C. W. Tomlinson, Clk., let contract to Morgan-Hill Paving Co., Seybold Bldg., Miami, \$13,998, for 132,000 ft. 18-ft. resurfacing, oiling and sanding, limerock pavements; to W. T. Price, Coconut Grove, for 650 sq. yd. conc. sidewalks. 10-11

Kentucky—State Highway Comm., Frankfort, let contracts for 11 roads and 3 bridges: Clay County—5.369 mi. trafficbound sandstone, McKee-Tyner-Manchester road, Mason Construction Co., West Point, \$43,053; Fleming County—7.489 mi. trafficbound macad., Flemingsburg-Mt. Carmel road, W. O. Bilitier Co., Covington, \$85,906; Graves County

—5.462 mi. bank gravel Clinton-Mayfield road, N. E. Stone & Co., Madisonville, \$14,347; Magoffin County—2.088 mi. trafficbound sandstone, Salyersville-Royalton road, Wilmore Construction Co., Wilmore, \$15,721; McCracken County—7.294 mi. bank gravel, Paducah-Wickliffe road, N. E. Stone & Co., \$34,013; Warren County—7.133 mi. trafficbound macad., Bowling Green-Morgantown road, McClelland & Campbell, Bowling Green, \$25,322; Webster-Union Counties—7.447 mi. bank and river gravel, Sullivan-Clay road, Corum Bros., Madisonville, \$62,577; grade and drain: Carter County—2.586 mi., Olive Hill-Carter Caves-Fullerton road, Barton & Tye, Fullerton, \$39,314; Meade County—5.453 mi. Highland Church-Paynesville road, Mason Construction Co., \$27,594; 2.761 mi. Millers Mill-Ekron road, J. B. Westerfield, Owensboro, \$18,287; Robertson County—10.192 mi. Blue Lick-Mt. Olive road, H. S. Tye & Son, Eminence, \$76,876; Logan County—bridge over L. & N. R. R., Bowling Green-Russellville road, Henry V. Hay, Booneville, Ind., \$14,667; Lincoln County—bridge over L. & N. R. R., Mt. Vernon-Stanford road, Phelps Construction Co., Somerset, \$11,547. 10-4

Ky., Louisville—City, Bd. of Public Works, let contract to Andrews Asphalt Paving Co., Inter-Southern Bldg., \$10,649, to pave Lily Ave., Crittenden Drive to Bradley Ave.; Louisville Asphalt Co., Floyd and Lee St., \$11,560, Lauderdale Road, Spring Drive to Dorothy Ave.; F. G. Breslin, \$6,327, Lytle St., Twenty-first to Twenty-fourth St. 10-4

Miss., Canton—Madison County Bd. of Suprvs., let contract to B. C. George & Co., Corinth, for 15,683 mi. State Trunk road, between Canton and Jackson. 9-27

Miss., Hattiesburg—City, B. D. Moore, Mayor, let contract to E. A. Finch, Hattiesburg, \$1.98 per yd. for grading, curbing, Alabama limestone and Topeka asphaltic conc., on West Fourth and Camp St., Tenth and Twenty-first Ave. 10-25

Miss., Vicksburg—Warren County Highway Comm., Paul M. Polk, Sec., let contract to G. W. Russell Co., Hazelhurst, \$26,793, for 7.6 mi. gravel, Neighborhood Road, from Bovina to Baldwin's Ferry road. 10-18

Mo., Cape Girardeau—City, W. C. Kaempfer, Clk., let contract to McGeorge Construction Co., \$7,116 to pave College St., Ellis St. to Beauden Lane, with 30-ft. conc. 10-18

Mo., University City, Branch of St. Louis—City, E. B. Colby, Clk., let contract to Bridges Asphalt Paving Co., 1370 Kentucky St., \$16,990, to improve Delmar Blvd., Vassar to Wellesley; to Skrainka Construction Co., Security Bldg., \$14,372, to improve Crest Ave., Sutter to Kingsland Ave. 10-18

N. C., Gastonia—City, W. L. Walters, Clk., let contract to Noll Construction Co., N. Marietta St., Gastonia, for 15,000 sq. yd. conc. base, asphalt top paving; cost about \$75,000. 10-18

Okla., Hooker—City, A. Lorenz, Mayor, let contract to J. Stanton & Son, Leavenworth, Kan., \$38,766, for 10,000 yd. 7-in. conc. street paving. 10-18

Okla., Muskogee—City, Hugh Dickson, City Engr., let contract to Gravelle & Hamblin, Barnes Bldg., \$53,486, for 13,973 sq. yd. conc. paving, 2,780 sq. ft. sidewalks, curbing, etc., in Dist. No. 204. 10-18

Okla., Oklahoma City—City, E. M. Fry, Mgr., received low bid from L. M. Rauch, 1301 West 20th St., \$2.00 per sq. yd., to pave with conc. Walker Ave., C to G Ave.; Western Paving Co., Petroleum Bldg., \$3.48 per yd., to pave with natural rock asphalt Twentieth St. from May Ave. to point east of Grand Blvd. 10-4

Okla., Seminole—Seminole County let contract to Taylor & Younger, Stock Yards Sta., Oklahoma City, \$47,563, for grading and 7.5 mi. 30-ft. conc. paving, Little River road. 10-4

Okla., Shawnee—H. L. Cannady Co., 1122 S. Lewis St., Tulsa, has contract, \$27,301, for grading, 7300 sq. yd. Paving Dist. No. 71. 10-4

Okla., Tulsa—City Comm. let contract to Standard Paving Co., 2119 E. Eleventh St., \$22,419, to pave Gary Ave., Seventeenth to Twenty-first St. and Seventeenth St., Florence to Harvard Ave. 10-4

Tennessee—Dept. of Highways and Public Works, Nashville, let contracts for 15 roads and 17 bridges: Perry County—grading, draining, R. E. Martin, Pulaski, \$15,480; Monroe-London Counties—grading and draining, Henry Bros., Maryville, \$26,701; Henry-Stewart Counties—R. E. Martin, Pulaski, \$39,609; Gibson County—Cresap Bros., Humboldt, \$100,286; Weakley County—R. S. Hall & Co., Newbern, \$114,314; Cocke County—Reynolds Construction Co., White Pine, \$64,274; Henry County—W. J. Bryson Paving Co., W. 14th St., Jacksonville, Fla., \$207,717; Hamilton County—Wells Construction Co., South Pittsburg, Tenn., \$89,854; Williamson County—Municipal Paving and

Construction Co., Nashville, \$91,613; Washington County—J. J. Battershill & Son, Virgilina, Va., \$204,371; Hickman County—Steel Co., Fayetteville, \$14,193; Davidson County—McQuary Brothers, Adams, \$182,873; John Oman, Jr., Chamber of Commerce, Nashville, \$174,709; Moore County—Brown Contracting Co., Chattanooga, \$15,251; Stewart County—across Cumberland River, Dover, Gould Construction Co., Independent Bldg., Nashville, \$344,752; another bridge to Gould Construction Co., \$63,911; Meigs County—grading, draining, R. E. Martin, Pulaski, \$63,979. 10-4

In Hancock County—bridge substructure, Bateman Construction Co., Chattanooga, \$74,382; superstructure, Vincennes Bridge Co., Vincennes, Ind., \$12,920; Clay County combined bridge, Nashville Bridge Co., Nashville, \$12,920; Henry County—bridge Forum-James Construction Co., Dyersburg, \$26,632; Davidson County—combined bridge, E. A. Wood & Co., Andrews, N. C., \$133,892; Lawrence County, bridge, Alley Construction Co., Bristol, Tenn., \$11,004; Madison County—overhead bridge, F. V. Ragsdale, 1762 Autumn St., Memphis, \$36,938; Putnam County—bridge, W. T. Moore, Andrews, \$27,612; Gibson County—bridge M. K. Orr, Little Rock, Ark., \$36,250; Weakley County—bridge, Pittsburg-Des Moines Steel Co., Des Moines, Iowa, \$43,491; Gibson County—overhead bridge, S. R. Hall & Co., Newbern, \$26,100; Henry County—bridge, W. J. Bryson Paving Co., \$94,349; Hamilton County—overhead bridge, M. P. Smith Construction Co., Knoxville, \$101,774; Davidson County—bridge, George A. Thomason & Co., Nashville, \$58,311. 10-4

Tenn., Knoxville—Southern Paving Construction Co., Volunteer Life Bldg., Chattanooga, has contract to conc. Dandridge Ave., Main to Gronner Drive. 10-4

Tenn., Nashville—H. L. Turney & Co., Nashville, has contract to hard surface driveways in Woodlawn Memorial Park. 10-4

Tex., Dallas—Dallas County, Chas. E. Gross, County Auditor, let contract to Culverhouse, Jones & Schillings, Itasca, \$29,742, for grading and draining Buckner Blvd., East Pike to Garland road. 9-27

Tex., Dallas—Dallas County Commrs. Court let contract to Central Bitulithic Co., Praetorian Bldg., \$60,595, for 2 mi. 40-ft. conc. base, asphalt top, 6-ft. conc. shoulders, East Grand Ave., from Dallas city limits to Garland road. 10-18

Tex., Dallas—City, E. R. Burt, Mayor, let contract to Uvalde Paving Co., Santa Fe Bldg., \$42,551, to pave 4 streets: Taylor, Reynolds, Pearl and Paris. 10-18

Tex., Houston—A. M. Arnold & Co., 112 Buffalo St., have contract, \$114,000, to pave Seventy-fifth St., Harrisburg to Munn. 10-18

Tex., Houston—Scott Shambaugh, 1401 Dowling St., has contract to pave Sunset Blvd., University Ave. to Kirby Drive. 10-18

Tex., Karnes City—S. F. Vann, Trinity and Poth, Tex., will start grading and draining 5,740 mi. Highway 16 south from Wilson County line, cost \$30,306; E. L. Marek, Res. Engr. 10-18

Tex., Lefors—Gray County Commrs. let contracts for 3 roads: Stuckey Construction Co., Pampa and Wichita Falls, \$106,560, for 3.7 mi. vibrolithic conc. on old field road south of Pampa; J. P. Poty Co., Wichita Falls, for 6 mi. grading, draining, Highway 33 north, from Pampa to Roberts County line; 3.6 mi. plain conc. paving, Highway 33, next spring. 10-18

Tex., Mineral Wells—City let contract to Mineral Wells Brick Co., \$62,000, for 8 blocks 2 1/4-in. brick on conc. paving, Northwest Fourth Ave. 10-18

Tex., Odessa—City let contract to Brown & Root, 1904 Post Dispatch Bldg., Houston, \$55,000, for 21 blocks street paving. 10-18

W. Va., New Martinsville—Wetzel County let contract to W. McCormick, New Martinsville, \$33,537, for 2 mi. 16 and 18 ft. 3-in. bit. mac. on 8-in. slag course road, from Smithfield up Princess Fork. 10-18

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving. 10-18

Ala., Mobile—Bd. of Commrs. receives bids Dec. 11 for storm sewers. See Want Section—Bids Asked. 10-18

Ala., Montgomery—See Roads, Streets, Paving. 10-18

Ala., Selma—Goddard Construction Co., Birmingham, has contract at \$20,000 for sanitary sewers in residence district, 5 miles of 6 and 8-in. terra cotta pipe; W. O. Crisman, City Engr.

Ark., Hughes—City plans water and sanitary sewer system; install wells, pumps, pipe lines, etc.

Ark., Paragould—Bunnell & Mack have contract for cleaning and dredging Eight Mile No. 2 ditch and for cleaning Johnson Creek No. 1.

D. C., Washington—W. Pate, Rockville, Md., has contract for 35th St. service sewer; M. Cain Co., 13 Sixth St., N. E., for Capital View sanitary sewer and Benning Road service sewer; A. McCandlish Co., 1215 Harvard St., N. W., for McGill Terrace service sewer and 23d Place and E St. service sewer; G. Mullin Co., 1296 Upshur St., for Perry Street service sewer.

Ky., Louisville—City let contract at \$6130 to Louisville Asphalt Co., 240 E. Lee St.; Cannall Conrad Co., Todd Bldg., at \$20,200; G. M. Eady, Gaulbert and Lee St., at \$11,000 for sewers.

La., Many—City voted \$50,000 sewer bonds; Swanson-McGraw, Inc., Balter Bldg., New Orleans, Conslt. Engrs.

Miss., Carthage—See Water Works.

Miss., Flora—Dobson & Humphreys, Omaha, Neb., has contract at \$28,804 for sewer system; F. R. Thomas Clay Products Co., First Natl. Bank Bldg., Memphis, Tenn., contract for rein. conc. pipe; Henry A. Mentz & Co., Engrs., Hammond, La.

Miss., Macon—See Roads, Streets, Paving.

Mo., Golden City—See Water Works.

Mo., St. Charles—City plans sewers, cost \$25,000; Burns & McDonnell, Engrs., 401 Interstate Bldg., Kansas City.

Mo., St. Joseph—Harrington Construction Co. low bidder for sewers in Thirteenth St.

Okla., Ada—Asplund Construction Co., Enid, has contract at \$46,000 for sewers.

Okla., Oklahoma City—W. B. Carter, 519½ West Main St., Oklahoma City, has contract at \$18,268 for sanitary sewers.

Okla., Tulsa—W. B. Carter, 1509 East Admiral St., has contract for storm sewer project, 34th St.

Okla., Perry—Dwight Chapin Co., Wichita, Kans., has contract at \$15,552 for sewage disposal works.

S. C., Aiken—See Roads, Streets, Paving.

S. C., Greenville—E. W. Hammond, Augusta Circle, interested in organizing joint stock company to finance and lay lateral sewerage lines in Augusta Circle section; cost \$18,000; J. E. Sirrine & Co., Engrs., 215 S. Main St.

Tex., Archer City—The Robeck-Humphreys Co., Omaha, Neb., has contract at \$75,000 for 18,000 ft. sewer mains and new complete sewage treatment plant; consisting of dosing chamber by-pass, sludge drying bed, filter aerator, filter bed and chlorinator; 22,000 ft. of 6 and 8-in. water mains, 100,000 gal. elevated tank; Montgomery & Ward, Conslt. Engrs., Wichita Falls.

Tex., Austin—Janes Contracting Co., 805 Trunk St., Dallas, has contract at \$74,684, for Guadalupe St. and at \$102,829 for Comal St. storm sewer systems; Orin E. Metcalfe, City Engr.

Tex., Corpus Christi—H. L. Shaw, City Engr., recommends construction of 6 ft. sewer to drain Del Mar and large area of Bay Terrace; cost \$37,000.

Tex., Frankston—Koch & Fowler Co., Central Bank Bldg., Dallas, has contract for sewerage system.

Tex., Hico—City receives bids Nov. 26 for extension to sewer and water works. See Want Section—Bids Asked.

Tex., Houston—William Pralle, City Engr. Dept., preparing plans for Lowell-Brunner storm and sanitary sewer.

Tex., Houston—City receives bids Nov. 14 for sanitary and storm sewers. See Want Section—Bids Asked.

Tex., Houston—C. K. Horton, 2202 Clay St., low bidder for storm and sanitary sewers on N. Main and Houston Aves. and sewer installation and paving on Crockett and Hogan Sts.

Tex., San Antonio—Kirkwood, Wharton & Lee, 517 N. Flores St., has contract at \$14,561 for Palm Heights sanitary sewer.

Tex., Weimar—See Water Works.

Telephone Systems

N. C., Old Fort—Jupollo Public Service Co., Cleveland, Ohio, acquired Old Fort Telephone Co.; will be known as Appalachian Telephone Co.

Textile Mills.

Ala., Bridgeport—Aycock Hosiery Mills, South Pittsburg, Tenn., advises, are not making any improvements on property recently acquired at Bridgeport.

Ala., Bridgeport—J. N. Hartford, Nashville, Tenn., establish full fashioned hosiery mill, having own dye and packing plant; cost \$50,000.

Georgia—The Goodyear Tire and Rubber Co., Akron, Ohio, advises, plans establishing tire plant somewhere in the Southeast; location not selected.

Ga., Rossville—Richmond Hosiery Mill let contract to Mark K. Wilson, 2507 E. Fifth Ave., Chattanooga, Tenn., for \$200,000 addition to mill.

Md., Cumberland—Celanese Corporation of America, New York office 156 26th St., Arthur J. Fitch, Works Mgr., Amcelle, reported, let contract to George F. Hazlewood, Cumberland, for textile and spinning units; cost \$400,000.

Miss., Kosciusko—Following contractors estimating on mill unit for Aponaug Mills, date of opening bids to be announced later; Norwood Griffin Co., Bona Allen Bldg., Sam N. Hodges, 579 Peachtree Road, N. E., Wagar & Co., Norris Bldg., A. K. Adams Co., 542 Plum St., Smith & Williams, Red Rock Bldg., all Atlanta, Ga.; Batson-Cook Co., West Point, Ga.; T. O. Thompson, Charlotte, N. C.; A. C. Sanford, Shepard Bldg., Montgomery, Ala.; I. C. Garber, Medical Bldg., Jackson; plant manufactures chambray and print cloth; Robert Co., Inc., Engrs., Bona Allen Bldg., Atlanta, Ga.

N. C., Albemarle—Brown-Harry Co., Gastonia, has contract at \$100,000 for new unit for Wiscasset Mill; 4 story, 104x147 ft., rein. conc.; work under supervision of L. A. Brown, Gastonia.

N. C., Belmont—W. O. Pratt Co., Mount Holly, general contractor for mill for Hatch Full Fashion Hosiery Co., let following sub contracts: Roof and metal work, G. G. Ray & Co., 311 E. 5th Ave., Charlotte; steel, Southern Engineering Co., Dowd Rd. Char., lotte; sash, Truscon Steel Co., Youngstown, Ohio; plumbing, R. L. Rhodes & Sons, Mount Holly; plant will be 90x180 ft., 1 story with half basement; conc. foundation walls; conc. and wood floors; steel columns and steel frame; Barrett roof with monitor.

N. C., Gastonia—Frank and Robt. Goldberg, Bessemer City, reported, acquired Piedmont Spinning Mill; will manufacture coarse yarns used in manufacture tire fabrics.

N. C., Greensboro—Mock, Judson, Voehringer, Inc., Howard and Hatt Sts., reported, plans consolidating with Northwood Hosiery Co., Philadelphia; Mojud Dye Works, Long Island City, N. Y., and Mock & Judson, New York; expend \$1,000,000 for doubling capacity of present full fashioned hosiery mill; equip with modern machinery.

N. C., High Point—Blue Jay Hosiery Mills, Inc., capital \$100,000, incorporated; Charles L. Amos, English St.

N. C., Valdese—Waldensian Hosiery Mills, I. M. Sohey, Pres., let contract to Alfred Hoffman, Inc., for 11 H. S. L. machines.

S. C., Anderson—Anderson Hosiery Mills, C. G. Sayre, Pres., plans installing additional machinery, probable enlargement of plant; increase production from 700 doz. prs. mercurized hosiery to 1200 doz. prs.

S. C., Chesnee—Grier-Lowrance Construction Co., Inc., Statesville, N. C., Gen. Contrs., for Chesnee Mill, let following additional sub contracts: Steel sash, Allison Steel Products Co., Chester, Pa.; brick, Bostic Brick Co., Lattimore, N. C., and Merry Brothers, Marion Bldg., Augusta, Ga.; plumbing, Garrett Engineering Co., Spartanburg.

S. C., Gaffney—Chamber of Commerce negotiating with Dura-Back Co. (knit underwear) for establishing of plant and with company in Wisconsin for silk knitting mill.

Va., Norton—Sidney M. Edelstein, Industrial Engr., Union, S. C., reported, conferring with capitalists on proposition for establishment of braid mill.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Mobile—City voted \$400,000 water works bonds.

Ark., Hughes—City has preliminary plans for water works improvements, sanitary sewers, disposal plant.

Ark., Star City—Water Improvement Dist. No. 2 receives bids about Dec. 1 for water works improvements. See Want Section—Bids Asked.

Fla., Tampa—City, D. B. McKay, Mayor, receiving bids on aerator operated by water agitators propelled by electric motors.

Fla., West Palm Beach—West Palm Beach Water Co., acquired Northborough Water Co.

La., Mer Rouge—City has preliminary plans for 50,000 gal. tank on tower and 20,000 ft. water mains.

Md., Cumberland—City, Leander Schaidt, Special Flood Engr., soon call for bids for lowering C. & O. canal dam, installing flatboards and for cleaning and dredging Potomac River below the dam and raising canal towpath along river.

Md., Towson—Metropolitan Contracting Co., 220 S. Highland Ave., Baltimore, constructing \$17,628 water works system in Millford, Liberty Heights and Hamilton Aves. See Want Section—Bids Asked.

Miss., Carthage—City voted to issue \$65,000 bonds for water works and sewer system; M. L. Culley, Conslt. Engr., Jackson.

Miss., Forrest—City plans voting on bonds for water works plant and extension water mains.

Mo., Golden City—City votes Nov. 29 on \$70,000 water and \$30,000 sewer bonds.

Mo., Mansfield—City votes Nov. 19 on \$10,000 water works bonds.

Mo., Moberly—City plans \$15,000 water works improvements; Burns & McDonnell, Engrs., 401 Interstate Bldg., Kansas City.

N. C., Greensboro—O. Z. Wrenn & Co. have contract for 275 tons rail steel for reservoir; R. G. Lassiter & Co., American Bank Bldg., Gen. Contrs.

Okla., Mangum—International Filter Co., 333 W. 25th St., Chicago, Ill., has contract at \$32,400 for zeolite water softening plant; city will build structure to house plant; E. W. Gantt Co., Engrs., Hobart, Okla.

Okla., Maud—Standard Paving Co., 1742 E. 6th St., Tulsa, has contract at \$13,916 for water works extension.

Okla., Norman—City plans 500,000 gal. tank and tower; cost \$15,000.

S. C., West Greenville—Town, W. H. Caswell, Mayor, soon begin work on water works; \$65,000 bonds available; Harwood Bebee, Engrs., Montgomery Bldg., Spartanburg.

Tenn., Bruceton—City plans \$25,000 water works; J. M. Richards, Engr., 420 Bennie Dillon Bldg., Nashville.

Tenn., Nashville—Radnor Water Co. acquired 2 acre site on Radnor College Hill for standpipe and pumping station.

Tex., Abilene—City plans acquiring 5000 acres along Elm Creek near Old Phantom Hill; build dam; votes Nov. 17 on water works bonds.

Tex., Corsicana—Wilson & Seward, Brady, have contract for extension water works, Proposal No. 1, using leadite pipe joints; U. S. Cast Iron Pipe & Foundry Co., Magnolia Bldg., Dallas, for c.l. pipe; valves to Eddy Valve Co., Dallas.

Tex., Dallas—City Comsn. authorized purchase of 12 acres in Southwest Oakcliff for additional storage facilities.

Tex., Denton—City let contract to Briggs-Weaver Machinery Co., 307 N. Market St., Dallas, for Dayton-Dowd pump; to Denton Electric Shop for furnishing 150 hp. Westinghouse electric motor; contract for engine unit not let.

Tex., Hico—City receives bids Nov. 26 for extension to water works and sewer system. See Want Section—Bids Asked.

Tex., Port Neches—Port Arthur City Comm. voted to lease 14 acres of land at Port Neches for water works plant.

Tex., Sherman—City plans extending water mains into N. W. section for fire protection.

Tex., Waco—City receives bids Nov. 22 for earth dam and appurtenant structure on Bosque River. See Want Section—Bids Asked.

Tex., Weimar—City extend water mains and install sewer system.

Tex., Winters—City votes Nov. 20 on \$72,000 water extension bonds.

W. Va., Fairmont—City may extend water mains to Grafton Rd. section.

W. Va., Wheeling—City approved extension of water lines to Greggsville and Elm Grove.

Woodworking Plants

Fla., Fort Lauderdale—Tropical Veneer and Package Co., erect first unit of crate factory; wood and iron; 60,000 sq. ft. floor space.

Mo., Kansas City—Missouri Carriage Works, Inc., 1915 Broadway, let contract to Moreley Bros., Dwight Bldg., for constructing \$40,000 addition to building; 2 stories; Hans Von Unwerth, Archt.-Engr., Finance Bldg.

S. C., Batesville—Louis Thomas acquired Jenkins cotton mill, 2 warehouses and 40 acres of land; considers establishing wood-working plant.

Tex., Houston—Artercraft Woodworking Co., 3810 Washington St., increased capital, \$25,000 to \$32,000.

W. Va., Clarksburg—Clarksburg Furniture Mfg. Co. increased capital, \$150,000 to \$250,000.

FIRE DAMAGE

Fla., Sarasota—Three dwellings owned by Henry Langsner; dwelling owned by Claude Ginn, all in Hudson Park.

Fla., Tampa—Argueles, Lopez & Co.'s cigar factory, 25th Ave. and 21st St.

Ga., Menlo—Menlo Gin Co.'s plant.

Ga., Statesboro—Residences of Dr. D. L. Deal and Dr. Rufus L. Cone, both S. Main St.

La., Oakdale—Bob Mason's residence.

La., Oak Ridge—Barham & Co.'s gin; loss \$20,000.

La., Pollock—James H. Walker's warehouse, A. L. Honeycutt's 2 warehouses; loss \$50,000.

Md., Baltimore—Weber's Seafood House, 103 Mercer St.

Miss., Scooba—Ed Aust's residence.

Miss., Sturgis—Warehouse owned by A. V. Frazier and H. L. Carter.

Mo., Advance—A. D. Bollinger's residence; loss \$20,000.

Mo., Kansas City—Gaines Building, 27th St. and Prospect Ave.; loss \$12,500.

Mo., Kansas City—W. J. Barnes' barn on Schermes road; loss \$10,000.

Mo., Pratherville—Margold Gardens owned by E. V. Noll; loss \$35,000.

Mo., St. Louis—Joseph Daleo's tenement, 1327 N. 14th St.

Mo., St. Louis—Building, 2000-04 Gratiot St., owned by Mound City Box Co., Inc., 2002 Gratiot St.

N. C., Bullock—Baptist Church. Address The Pastor.

N. C., Concord—Arch White's cotton gin; loss \$12,000.

N. C., Harrisburg—A. H. White's cotton gin on Charlotte Road.

N. C., Hickory—Abernethy Dray & Transfer Co.'s storage house.

N. C., Roxboro—Haywood Barnett's residence and packhouse near Roxboro.

Okla., Tonkawa—Five tanks of crude oil at Constantine Refinery, operated by Globe Oil and Refining Co.; loss \$25,000.

S. C., Sleglingville—Berry Moody's residence.

Tenn., Madisonville—Tallent House, owned by Calvin Young; Kyker Furniture & Undertaking establishment.

Tex., Big Spring—Baptist Church; loss \$10,000. Address The Pastor; J. T. Brooks' residence.

Tex., Brownwood—Engine house and plant of Texas Brick Co.; loss \$100,000.

Tex., Clarksville—Buildings of Dryden Furniture Co., Cotton Exchange, American Legion Hall, Bollman Motor Co.; loss \$150,000.

Tex., Dallas—Foy's Ideal Theater in East Dallas; loss \$40,000.

Mo., Houston—Mrs. Catherine Dooley's 2 buildings, owned by H. Britton Grocery Store and Charles A. Meyer's Cafe; Mayor Leland Womack's building, occupied by Verdie Sutton's cleaning and pressing establishment.

Tex., Navasota—S. D. Marrett's gin; loss \$10,000.

Tex., Waco—Old Exchange Hotel owned by Eugene and W. E. Early Estate, R. A. Wilson, representative; loss \$50,000.

Va., Danville—Gentry's Bakery building at Five Forks.

W. Va., Newell—Newell Lumber Co.'s plant; loss \$25,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ky., Henderson—Ancient Free and Accepted Masons receive bids Nov. 9 for temple, Second St.; \$110,000 to \$125,000, 3 stories, 2 stores on first floor.

Ky., Louisville—Grand Chapter of Kentucky, Eastern Star, Miss Florence Curnutte, Worthy Grand Matron, Catlettsburg, plans \$75,000 home.

N. C., Lenoir—Hibriten Lodge No. 262, A. F. & A. M., considers 5-story temple; tentative sketches submitted by Martin L. Hampton and Robt. L. Jordan, Archts.

Oklahoma—Knights of Pythias, A. O. Romine, Sec., Bd. of Trustees, Hobart, Okla., plans home for widows and orphans in Oklahoma; meeting Jan. 15 to consider location proposals.

Tex., Beaumont—Following contractors estimating on \$400,000 Y. M. C. A. bldg., bids Nov. 19 (lately noted Nov. 17): Christy-Dolph Construction Co., Industrial Bldg.; Central Contracting Co., Athletic Club Bldg.; Bellows-Macley Constr. Co., Industrial Bldg.; A. J. Rife Construction Co.; Watson Co., S. Akard St., all Dallas, Tex.; R. F. Ball Construction Co., Fort Worth, Tex.; J. W. Zempter & Co., 2204 B St., Galveston, Tex.; Dougherty-Nichols-Young Co., Nixon Bldg., Corpus Christi, Tex.; Thos. M. Murray, Second Nat'l Bk. Bldg., Houston, Tex.; McDaniel Bros., Kyle Bldg.; King-Huff Construction Co., Franklin and Neches Sts.; Herman Weber, Perlstein Bldg.; Chas. F. Law, 2145 Avenue E.; C. F. Myers, Amer. Nat'l Bk. Bldg., all Beaumont; J. DePuy, 1206 W. Russell St., San Antonio, Tex.; Tisdale, Stone & Pinson, Archts., Goodhue Bldg., Beaumont, and Ind. Life Bldg., Nashville, Tenn.; John W. Ogg, Supvg. Archt., care Architectural Bureau, Intl. Comm., Y. M. C. A., 347 Madison Ave., New York. 11-1

Bank and Office

Fla., Orlando—First National Bank and Trust Co., W. R. O'Neal, Pres., receiving bids for fireproof bank and office bldg., Orange and Church Sts.; rein. conc., steel, brick, dull terra cotta, limestone, conc., tile and comp. floors, comp. roof, marble, tile and misc. and orna. iron and steel work, \$300,000; Howard M. Reynolds, Archt., 423 S. Orange St.; following contractors estimating: James Peterson Construction Co., O. B. & T. Bldg., Orlando; G. A. Hanson Co.; Friend & Bournier, 305 Cass St.; Frost Construction Co., 601 Marion St., all Tampa; John H. Bull; Parklap Construction Co., both St. Petersburg; Harrison Construction Co., 235 N. E. 35th St., Miami; A. Bentley & Sons, Atlantic National Bank Bldg.; G. W. Hessler, Inc., St. Johns Ave., both Jacksonville; E. F. Powers Construction Co., Harvey Bldg., West Palm Beach. 7-6

Fla., West Palm Beach—A. J. Comeau, repair 11-story Comeau Bldg., damaged by hurricane; \$35,000.

Okla., Duncan—Hawk & Parr, Archts., Cotton Exch. Bldg., Oklahoma City, drawing plans for \$75,000 office building; brick, stone and rein. conc., 5 stories.

Tex., Sarita—Kenedy Pasture Co. erect office building and 2 garages; former brick and rein. conc., 2 stories.

Va., Richmond—Central National Bank erect \$1,500,000 bank and office building, Broad and Third Sts.; L. shape, Indiana limestone front on Broad St., 15 story and basement, 61x145-ft. main section, with 4-story wing, 26 ft. front, on Third St.; banking room 57x145 ft., 37 ft. high; 4000 safety deposit boxes and 16 customers' rooms in basement; special ventilating system in banking room; telautographs, high-speed elevators; arcade; Elbertson & Elbertson, Inc.,

Archts., 200 W. 57th St., New York, and 212 E. Superior St., Chicago, Ill.; Carneal & Johnston, Asso. Archts., Electric Bldg., Richmond, (latter lately incorrectly reported as supervising architects). 10-18

Churches

Ark., Magnolia—First Methodist Church remodel present bldg. or erect new structure.

Ark., Magnolia—Christian Church considers erecting building. Address The Pastor.

Ark., Magnolia—Central Baptist Church, W. N. Reed, member, Bldg. Comm., erect Sunday school.

Ark., West Fork—Presbyterian Church erect \$10,000 bldg.; A. O. Clark, Archt., Rogers. 11-1

Fla., Jacksonville—Riverside Park M. E. Church, Rev. Fred Turner, Pastor, has plans by Mark & Sheftall, Archts., Clark Bldg., ready about Nov. 15 for bids on rein. conc., brick and stone trim building; \$100,000, 2 stories and basement. 5-31

Fla., Palm City—Congregational Church rebuild structure damaged by hurricane. Address The Pastor.

Ga., Macon—Vineville Presbyterian Church, R. C. Corbin, member, Bldg. Comm., plans Sunday school.

Ky., Louisville—Church of Christ the King has permit for brick church and school, 724 S. 44th St.; \$100,000. Address The Pastor.

Ky., Nebo—Johnson Island Missionary Baptist Church rebuild burned structure; \$10,000. Address The Pastor.

La., Baton Rouge—First Baptist Church enlarge church and erect Sunday school; \$125,000. Address The Pastor.

Miss., Jackson—Capitol Street Methodist Church, E. G. Flowers, Chmn., Bldg. Comm., selected Claude H. Lindsley, Lamar Life Bldg., as architect for \$500,000 bldg., Magnolia St. and Grand Ave.

Miss., Laurel—First M. E. Church, Mrs. W. S. Taylor, Chmn., Bldg. Comm., receives bids Nov. 9 for brick Sunday school addition; 3 stories; Emile Weil, Inc., Archts., Whitney Annex, New Orleans; L. W. Duffee, Asso. Archt., P. O. Box 966, Laurel.

Mo., Hickman Mills—Christian Church, O. V. Slaughter, member, having plans drawn by Hoener, Baum & Froese, Archts., 3605 Laclede Ave., St. Louis, for \$30,000 church and Sunday school; brick, 1 story and basement, 30x90 ft. and 2 stories, 80x40 ft. 10-18

Mo., Pilot Grove—Evangelical Church, Rev. H. E. Mueller, Pastor, R. F. D. No. 1, having plans drawn by LeRoy Parrish, 115½ High St., Jefferson City, for \$25,000 building; brick, 1 story. 9-13

Mo., St. Louis—Kingsland Presbyterian Church probably ready for bids about Dec. 1 for brick building, Page and Woodruff Aves.; 1 story, stone foundation, slate roof, steam heat; Hoener, Baum & Froese, Archts., 3605 Laclede Ave.

N. C., Greensboro—Park Place Methodist Church, N. Elm St. and Fisher Park Circle, C. C. Hudson, Chmn., Bldg. Comm., having plans drawn by Harry Barton, Archt., for \$135,000 building; Gothic type, rein. conc., brick and stone; accommodate 600. 10-18

Okla., Ada—Methodist Church, Rev. John Smith, Pastor, has plans about completed for \$150,000 building; brick and rein. conc., 3 stories, cement and linoleum floors, oak finish; Albert S. Ross, Archt. 5-17

Tex., Big Spring—Peters, Haynes & Strange, Archts., Myrick Bldg., Lubbock, and Big Spring, have drawn plans for brick church. 10-25

Tex., Blanco—Methodist Church, Rev. W. A. Belcher, Pastor, remodel building.

Tex., San Benito—Presbyterian Church, Jas. C. Bowie, interested, plans building.

Tex., Taft—First Baptist Church erect \$25,000 building; brick and tile; work start Nov. 15. Address The Pastor.

Va.-Tenn., Bristol—First Presbyterian Church rebuild church; \$50,000; R. H. Hunt Co., Archt., James Bldg., Chattanooga, Tenn.; bids in.

City and County

Ala., Mobile—City voted \$200,000 bonds to purchase property, Government St. between Royal and Water Sts., for civic center to include city hall-auditorium; bldg. program probably cost \$1,000,000. 9-20

D. C., Washington—District Commrs., Dist. Bldg., have low bid at \$56,735 from G. G. Loehler Construction Co., Inc., Tenth and U Sts., N. W., for Fire Engine House No. 30, 16th St. and Colorado Ave.; A. L. Harris, Municipal Archt., Dist. Bldg. 10-18

Fla., Chipley—City erect brick city hall; 2 stories and basement, conc. and wood floors, comp. roof, steam heat; Alvin R.

Moore, Archt., Century Bldg., Tallahassee; bids Nov. 5.

Fla., Lake Wales—City Comsn. has plans by Floyd King for rebuilding city hall, Lake Ave., damaged by hurricane; \$15,000; ready for bids.

Ky., Frankfort—McCreary County Bd. of Commrs. erect \$35,000 courthouse to replace burned structure.

Miss., Aberdeen—City voted \$50,000 hospital bonds. Address City Council.

Miss., Brookhaven—Lincoln County Bd. of Supvrs., F. V. McRee, Clk., receives bids Nov. 8 to alter and repair old jail; E. J. Hull, Archt., Jackson.

Miss., Forrest—City Council plans city hall. Mo., St. Charles—Park Board, Wm. F. Sparenberg, Pres., receives bids Nov. 16 for St. Charles County Memorial Hall, Blanche Park; plans from Edw. J. Ell, Sec.

Okla., Norman—City votes on \$25,000 bonds for library. Address City Council.

Okla., Tulsa—City Comsn. receives bids Nov. 9 for detention hospital, Mohawk Park; \$15,000, brick, 1 story, 47x105 ft., oak floors; A. J. Love & Co., 204½ E. 3d St., Archts.

Tex., Alvin—City Council, J. Dobert, City Sec., receives bids Nov. 9 for city hall and fire station; \$20,000, hollow tile and stucco, 2 stories, 40x60 ft., conc. and wood floors, rein. conc. foundation, built-up roof; Curtis & Thomas, Archts., Post-Dispatch Bldg., Houston.

Tex., Baird—Callahan County Bd. of Commrs. has plans by Voelcker & Dixon, Archts., Wichita Falls, for \$150,000 courthouse; brick, stone and conc., 3 stories and part basement; probably soon let contract.

Tex., Fort Worth—Park Bd., Ed K. Collett, Vice-Pres., plans bldg., Forest Park Zoo.

Tex., Galveston—Galveston County, E. B. Holman, County Judge, votes Nov. 30 on \$100,000 bonds to remodel and enlarge courthouse and jail.

Tex., Houston—City, O. F. Holcombe, Mayor, receives bids Nov. 14 to rebuild exterior and interior of bldg., 2201 Commerce Ave.; plans from W. A. Dowdy, City Archt.

Tex., Uvalde—City erect \$10,000 tile and stucco city hall; 1 story, 52x44 ft., wood and tile floors, tile and tin roof; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg.; W. E. Simpson & Co., Engrs., Natl. Bank of Commerce Bldg., both San Antonio. See Want Section—Building Material and Equipment.

Virginia—Lee, Scott, Wise, Dickenson, Buchanan, Russell, Tazewell and Washington counties interested in proposition to erect district almshouse. Address Frank Bane, Commr. of Public Welfare in Virginia, Richmond.

Va., Richmond—City Council, L. T. Price, Chmn. of Special Comm., considering proposition to erect \$250,000 jail or \$150,000 annex to present jail; tentative plans and specifications by W. L. Carneal of Carneal & Johnston, Electric Bldg., Richmond, and Stewart Iron Works, 17th and Madison Ave., Cincinnati, Ohio.

Dwellings

Ala., Birmingham—A. W. Carey, 1044 S. 42nd St., erect \$20,000 residence, Redmont Park; brick and tile, 3 stories, 55x35 ft., tile baths, slate roof, steam heat; Chas. H. McCauley, Archt., Jackson Bldg.; bids in.

Ala., Birmingham—Jas. Turner, care H. D. Breeding, Archt., 110½ Twenty-first St., erect brick residence, Milner Heights; 2 stories and basement, clay tile roof, steam heat.

Ala., Tuscaloosa—Druid City Land Co. purchased 18 lots; plans dwellings for paper mill employees.

Ala., Tuscaloosa—Dr. J. L. Boothe, Elrod, erect residence, Alberta City.

D. C., Washington—L. H. Rhodes, 3430 N. Brown St., has permit for brick residence, 3428 Brown St., N. W.; 2 stories, \$10,000.

D. C., Washington—Dr. Camp Stanley 2374 N. W. Massachusetts Ave., has permit for \$90,000 residence, 2372 Massachusetts Ave., N. W.; brick, 3 stories.

D. C., Washington—W. Walter Vaughn, 12th and Upshur Sts., N. E., has permit for 3 cinder block dwellings, 1015-19 Taussig Place, N. E.; 2 stories, \$16,500.

D. C., Washington—Albert R. Grever, Union Trust Bldg., has permit for \$10,000 residence, 1617 Tuckerman St., N. W.; 2 stories, brick and tile.

D. C., Washington—P. J. Grady, Investment Bldg., erect 3 frame dwellings, 800-04 Quintana Place, N. W.; 2 stories; \$16,500.

Fla., Tampa—J. A. Harn, 2310 Nebraska Ave., erect \$20,000 residence, Davis Islands; stucco and tile, 2 stories, 8 rooms, Spanish

type; Schumacher & Winkler, Archts., 610 Magnolia St.

Fla., Tampa—T. J. Hanlon, Jr., 802 S. Delaware Ave., erect \$10,000 structure to join to dwellings, West Davis Islands.

Ga., Atlanta—C. C. Sheffield, 907 Gordon St., S. W., erect residence, Druid Hills.

Ga., Atlanta—Mrs. Louise Harbin, 841 Glendale Terrace, N. E., erect 3 brick veneer dwellings, 777-83-89 Brookridge Drive; 1 story; \$18,000.

Ky., Louisville—L. B. Whitman, 1800 Richmond Drive, erect \$10,000 residence and garage, 1816 Norris Place; brick veneer.

La., New Orleans—J. E. Potthart, 1304 Lowerline St., erect \$18,000 residence, 3300 Versailles Blvd.; tile roof, 50x50 ft.; R. S. Soule, Archt., 429 Carondelet St.

La., Shreveport—W. L. Trimble, 610 Herndon Ave., has low bid at \$35,548 from Gilman McConnell for residence, Wilkinson St. and Fairfield Ave.; Edw. F. Neild, Archt., City Bk. Bldg.

Md., Baltimore—Davison Realty Corp., organized; erect 800 dwellings on land adjoining Davison Chemical Co.'s plant, Curtis Bay; C. Wilbur Miller, Pres., Davison company, Garrett Bldg.

Md., Baltimore—St. Thomas P. E. Church, Rev. C. E. Perkins, Pastor, 1420 Carswell St., erect 2½-story stone rectory, Alameda and 31st St.; Robt. L. Harris, Archt., 3432 University Place.

Md., Baltimore—T. H. Symington, Standard Oil Bldg., erect \$60,000 residence, Falls Road and Seminary Ave., Green Spring Valley; H. T. Lindeberg, Archt., 2 W. 47th St., New York.

Md., Baltimore—G. Bernard Lohmuller, 3001 Greenmount Ave., erect 13 brick dwellings, 3027-51 Matthews Ave.; 2 stories; \$26,000.

Md., Baltimore—Edw. L. Palmer, Jr., 513 N. Charles St., Archt., erect residence, Churchwarden's Rd., Homeland.

Miss., Jackson—J. Blake Lowe erect English type residence, Woodland Hill; 2 stories and basement, 61x32 ft., brick veneer and stucco, hardwood floors, shingle and tile roof, tile baths, steam heat; N. W. Overstreet, Archt., Miss. Fire Bldg.

Mo., Cape Girardeau—Wm. Vedder erect brick residence, 1005 Themis St.; 1 story; bids Nov. 9 by Reither & Lindsay, Archts., 523 H. & H. Bldg.

Mo., Kansas City—Fred Milburn, 438 W. 62d St., Vice Pres.-Gen. Mgr., Implement Trade Journal, purchased homesite, 651 W. 67th St., Armour Fields.

Mo., Clayton, St. Louis—A. J. Levy, 1738 Olive St., erect \$15,000 residence, Boland St., Moorlands; brick, 40x50 ft.; Maritz & Young, Archts., Chemical Bldg.

Mo., St. Louis—F. J. Riley, 1614 Bellevue Ave., erect \$10,000 residence, Richmond Heights; 1 story and basement, 37x32 ft., hardwood floors, tile bath, comp. shingle roof, hot water heat; F. G. Avis, Archt., 1021 Big Bend Blvd.

Mo., St. Louis—Jacob E. Lasky, 5502 Delmar Blvd., erect brick residence, St. Louis County; 1 story and basement, 65x35 ft., tile roof, stone foundation, hot water heat, elect. refrigerator, incinerator; Benj. Shapiro, Archt., Synd. Tr. Bldg.

Mo., St. Louis—David D. Walker, 6315 N. Rosebury St., erect \$40,000, brick, tile and timber residence, Log Cabin Club grounds; 2 stories and attic, about 77x28 ft., stone foundation, hardwood floors, tile baths, marble and tile work, comp. roof; LaBeaume & Klein, Archts., Compton Bldg.; bids in.

N. C., Winston-Salem—Mrs. Mary Dixon, 814 Carolina Ave., erect \$22,500 residence and garage, Warwick Rd.; brick veneer, 2 stories, 12 rooms, brick and conc. foundation.

Tenn., Knoxville—B. H. Sprinkle, 422 W. Union Ave., erect 4 brick veneer dwellings, 500 block E. Clinch St.; 2 stories, 6 rooms; \$14,500.

Tenn., Memphis—Ben L. Matthews, Fidelity Bk. Bldg., considers erecting brick veneer Colonial residence, Wells Station; 2 stories and basement, oak floors, stone trim, garage and servants' quarters.

Tenn., Memphis—Paul J. Kent, 83 Monroe Ave., plans brick veneer residence, Jackson Ave. and Sheridan Place; 1 or 2 stories and basement, oak floors, comp. shingle roof, steam heat; garage and servants' quarters; Estes W. Mann, Archt., Cotton Exch. Bldg.

Tenn., Memphis—C. M. Halford, Dermon Bldg., plans \$10,000 brick veneer duplex, 1701 Autumn Ave.; 2 stories and basement, 31x55 ft., oak floors, tile bath, comp. shingle roof, hot water heat.

Tenn., Memphis—J. D. Scott, Court Sq. Bldg., considers 2 brick veneer dwellings; 1 story and basement, oak floors, comp. shingle roof; \$10,000.

Tenn., Memphis—J. P. Norfleet, Walnut Grove, erect brick and stone residence; oak floors, tile baths, tile roof; Geo. Mahan, Jr., Archt., Amer. Bk. Bldg.

Tex., Beaumont—J. B. Price, 1455 North Ave., erect \$15,000 residence, Tenth St. and Liberty Ave.; brick veneer, 2 stories.

Tex., Dallas—Murrell Buckner, 3723 Lemon St., erect \$14,000 residence, 3525 Arrowhead St.; brick veneer, 12 rooms.

Tex., Dallas—Dr. W. B. Carroll, 3701 Maple St., erect \$25,000 residence and garage, 3612 Overbrook St.; 16 rooms.

Tex., Fort Worth—C. W. Hudzietz erect \$10,000 brick veneer residence, Lofton Terrace.

Tex., Fort Worth—W. H. Knight erect \$10,000 brick veneer residence, 2000 W. Broadus St.

Tex., Fort Worth—Simon W. Freese, Cotton Exch. Bldg., erect \$10,000 rock veneer residence, 3318 Avondale St.

Tex., Fort Worth—M. Phitley erect \$15,000 brick veneer residence, 3824 Monticello St.

Tex., Houston—L. Bosco, 1304 Lorraine St., erect \$15,000 residence, Blodgett and Alameda Sts.; brick veneer, 1 story.

Tex., Houston—P. J. Lawrence erect 2 brick veneer duplexes and garages, 1917-1921 Hazard St., Hyde Park addition; 2 stories, 10 rooms; \$20,000.

Tex., Houston—R. C. Kuldell, 4500 Caroline St., erect English type residence, Broadacres; brick veneer, 2 stories; John Staub, Archt.

Tex., Houston—C. H. Hardison, care Houston O. I. Co., Petroleum Bldg., has plans about completed by Carl A. Mulvey, Second Natl. Bank Bldg., for English type residence, Braeswood.

Tex., San Angelo—R. Romer erect \$10,000 residence, 302 W. Avenue B.

Tex., San Antonio—Matt Kivlin, 208 Granada Ave., erect number dwellings, Woodlawn Park.

Tex., Sherman—John H. Plangman erect residence, N. Woods St.

Va., Richmond—Dr. Ralph C. McDaniel, care Richmond College, erect residence on campus.

W. Va., Wheeling—W. H. Carter erect \$10,000 residence, Hawthorne Drive.

Government and State

Ark., Conway—Following contractors estimating on post office, bids Nov. 21 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., 5506 13th St., N. W., Washington, D. C.; Charles Weitz' Sons, 713 Mulberry St., Des Moines, Iowa; A. M. Lundberg; Murch Bros. Construction Co., both Rwy. Exch. Bldg., St. Louis, Mo.; W. D. Lovell, 1415 Eighth St., S. E.; Fred R. Comb Co., 2113 Chicago Ave., both Minneapolis, Minn.; Hewett & Russell, Conway; F. J. Ozanne & Co., Empire Bldg., Memphis, Tenn.; Philaull Contracting Co., 534 E. Johnson St., Philadelphia, Pa.; A. C. Samford, Shepherd Bldg., Montgomery, Ala.

D. C., Washington—National Zoological Park, Office of Director, let contract at \$14,781 to Bahen & Wright, 1223 New York Ave., for exterior cages at new bird house.

Ga., Fort Benning—Constructing Quartermaster, Fort Benning, Lieut. W. M. Allison, receiving bids for sections A, B, C and D of barracks: A and B 4 stories and basement, 154x50 with two 60x50-ft. wings; C and D 3 stories and basement, 240x50 ft.; rein. conc., brick walls, stone trim, built-up roof, steam heat, pipe tunnel, storm and sanitary sewers, water connection; separate bids for screens; following contractors estimating: Batson-Cook Co., West Point, Ga.; John W. Cowper Co., Buffalo, N. Y.; A. J. Krebs Co., Walton Bldg., Atlanta, Ga.; A. C. Samford, Shepard Bldg.; Algernon Blair, 11 S. Lawrence St., both Montgomery, Ala.; Brown-Harry Construction Co., Gastonia, N. C.; Murch Bros. Construction Co., Rwy. Exch. Bldg., St. Louis, Mo.

Md., Baltimore—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids Nov. 14 for soil investigation on site of post office and courthouse; drawings from Custodian at site or from office Supvg. Archt.

Miss., Corinth—Additional contractors estimating on extension and rehabilitation of post office, bids Nov. 16 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., 5506 13th St., N. W., Washington, D. C.; Charles Weitz' Sons, 713 Mulberry St., Des Moines, Iowa; Thos. H. Brockman, Canal Bk. Bldg., New Orleans, La.; G. E. Tillman, City Natl. Bk. Bldg., Centralia, Ill.; Hiram Lloyd Building & Construction Co.; Wm. MacDonald Construction Co., both Syndicate Tr. Bldg.; A. M. Lundberg, Rwy. Exch. Bldg., all St. Louis.

Mo.; Devault & Deltrick, Massillon Rd., Canton, Ohio; English Construction Co., 1311 H St., N. W., Washington; A. M. Lundberg, Rwy. Exch. Bldg., St. Louis. 11-1

Tex., Edna—Westhoff Mercantile Co. erect bldg. to be leased to Government for post office; brick, 40x50 ft.

Hospitals, Sanitariums, Etc.

D. C., Washington—District Commrs., Dist. Bldg., have low bid at \$88,788 from Concrete Oil Tank Co., Mills Bldg., to remodel heating plant, Gallinger Hospital. 11-1

Ga., Atlanta—City Council, I. N. Ragsdale, Mayor, may vote at general election Dec. 5 on \$1,000,000 bonds to erect psychopathic ward, enlarge contagious disease hospital, erect new white unit and renovate negro wards, Grady Hospital.

Ga., Rome—McCall Hospital, Dr. M. M. McCord, erect 2-story wing; work start about Jan. 1.

Miss., Laurel—Mississippi Building Comsn., Jackson, may at meeting Nov. 22 call for bids for repairs, South Mississippi Charity Hospital; \$25,000; R. C. Springer, Archt., Rosenbaum Bldg., Meridian. 6-7

Miss., Meridian—Mississippi Building Comsn., Jackson, may at meeting Nov. 22 call for bids for power house, bakery, ice plant and cold storage plant, East Mississippi Insane Hospital; \$225,000; R. C. Springer, Archt., Rosenbaum Building, Meridian. 6-7

Mo., Carthage—McCune-Brooks Hospital Bd. of Trustees receives bids Nov. 14 at office Saml. McReynolds, Carthage, for building, site present structure; \$150,000, rein. conc., brick and steel, 3 stories, 44x150 ft., marble, terrazzo and tile floors, slate roof; plans from Hoener, Baum & Froese, Archts., 3605 Laclede St., St. Louis. 8-2

Mo., Hannibal—Levering Hospital, J. T. Helme, Sec., probably take bids about Nov. 15 for 2-story brick addition; \$100,000; LeBeaume & Klein, Archts., Compton Bldg., St. Louis. 6-28

Okl., Beaver—City erect \$40,000 hospital; Roy W. Shaw, Archt., Enid.

Tenn., Memphis—United States Veterans Bureau, Frank T. Hines, Director, has low bid at \$73,337 from Ferguson Construction Co., German Bldg., Memphis, for recreation bldg., U. S. Veterans Hospital. 10-28

Tex., Del Rio—G. W. Cox erect \$150,000 fireproof hospital.

Tex., San Angelo—Dr. J. E. Hixon, 410 Central Nat'l Bk. Bldg., erect \$50,000 clinic, 208 E. Harris St.; brick and rein. conc., 2 stories; Phelps & DeWees, Archts., Gunter Bldg., San Antonio.

Tex., San Antonio—State Bd. of Control, R. B. Walthall, Chmn., Austin, remodel bldg., San Antonio State Hospital, S. Presa St.; Phelps & DeWees, Archts., Gunter Bldg., San Antonio; about ready for bids.

Hotels and Apartments

D. C., Washington—Charles D. Sagar, 924 N. W. 14th St., has permit for four 2-story brick and tile store and flat buildings, 2403-09 Benning road, N. E.; \$32,000.

D. C., Washington—Chas. D. Sagar, 924 14th St., N. W., erecting \$250,000, 5-story, brick and tile apartment, 120 C St., N. E.; George T. Santmeyer, Archt., 917 15th St., N. W.; M. Lloyd, Engr. See Want Section—Building Material and Equipment.

Fla., Palm Beach—The Billows Hotel, Worth Ave., has permit for \$10,000 repairs to hotel recently damaged by hurricane.

Fla., Palm Beach—Royal Danell Hotel, N. Lake Trail, has permit for \$10,000 repairs to hotel recently damaged by hurricane.

Fla., Palm Beach—Alba Hotel, N. Lake Trail, has permit for \$125,000 repairs to hotel recently damaged by hurricane.

Fla., Palm Beach—Florida East Coast Hotel Co. expend \$75,000 for repairs to Poinciana Hotel recently damaged by hurricane.

Fla., Tampa—S. B. Owen, 811 S. Packwood Ave., erect 4-apartment; L. A. Forte, Archt.

Ga., Atlanta—E. N. O'Beirne, Hurt Bldg., ready for bids about Nov. 15 for \$100,000, 2-story and basement, brick, 24-unit apartment, Peachtree road and Huntington road, N. E.; comp. roof, hardwood floors, steam heat; A. F. N. Everett, Archt., Candler Annex. 9-20

Ga., Augusta—Forrest Hills-Ricker Hotel Co., Wrightsboro Rd., has low bid at \$13,180 from Claussen-Lawrence Construction Co., 1394 Twinnett St., for addition and alterations; hollow tile, cement floor, Barrett slag roof; Willis Irvin, Archt., S. F. C. Bldg.

Ga., Savannah—Savannah Oglethorpe Corp., chartered; A. R. Lawton, Sr., 516 Abercorn

St., T. M. Cunningham and others, incorporators; take over General Oglethorpe Hotel on Wilmington Island and furnish, equip and complete hotel, golf course, and also operate.

La., Shreveport—R. A. Gibson, 222 Stoner Ave., soon call for bids for \$100,000, 24-apartment, Atkins Ave. and Kingshighway; tile roof, hot water heat; E. A. George, Archt., Giddens-Lane Bldg.

Mo., Kansas City—W. R. Jewell Realty Co., 423 Chambers Bldg., reported, having sketches prepared by F. Drotts, 423 Reliance Bldg., for \$250,000, 6-story and basement, 50x128 ft., rein. conc., brick apartment, 1410 Central Ave.

Mo., St. Joseph—Joseph Goldman, Am. Natl. Bank Bldg., and associates, erect \$800,000, 14-story, fireproof, 150-room hotel, Eighth and Edmond Sts., to be leased to Wenzel Hotels, E. L. Wenzel, Pres., Chicago; first floor for store rooms and shops; Walter Boschen, Archt., Turtle-Lacy Bank Bldg.

Mo., St. Louis—Marget Realty Co., J. A. Pastel, Pres., 904 Chestnut St., reported, soon call for bids for two \$1,000,000, 15-story apartments, 4440 and 4456 Lindell Blvd.; McDonald & Condie, Archts., 4485 Olive St. 10-18

Mo., St. Louis—H. C. Felter, 5172 Easton Ave., has plans by D. R. Harrison, Ambassador Bldg., for 10-story brick and stone apartment, 4580 Lindell Blvd.

Mo., St. Louis—Mrs. Dora Schnardshorst, 833 Bittner St., soon let contract for 2-story and basement, 49x24 ft., brick apartment, 800 block Bittner St.; stone foundation, comp. roof, tile bath, hardwood floors, hot air heat; L. H. Graham, Archt., 4885 Natural Bridge Ave.

Mo., St. Louis—V. A. Chinberg, 808 Chestnut St., plans apartment on Lindell Blvd.

Mo., St. Louis—C. N. Williams, 3637A Dunica St., erect \$12,000, 2-story, 35x48 ft., brick tenement, 3978-80 Bowen St.; comp. roof, hot air.

N. C., Charlotte—Home Real Estate and Guaranty Co., 140 Brevard St., erect \$75,000 addition to Thomas Apartment, 209 W. Seventh St.

Okl., Carmen—J. Hardy Stevens plans 2-story brick hotel; Roy W. Shaw, Archt., Enid.

Okl., Oklahoma City—Sam E. Chaney has permit for \$10,000 brick apartment, 429 W. 26th St.

Tenn., Knoxville—Russell W. Hanlon, 104 19th St., erect \$100,000, 2-story brick veneer 16-apartment on Kingston pike.

Tenn., Knoxville—Moss Yater has permits to erect \$10,000, 3-story, brick, 6-apartment, 2500 block Magnolia Ave.; \$10,000, 2-story, brick veneer 16-apartment, Armstrong Ave.; \$5000 brick garage on McCalla Ave.; \$9000, 2-story, brick store and apartment on McCalla Ave.

Tenn., Knoxville—J. A. Linn, 1141 N. 3rd Ave., erect \$15,000, 2-story, brick veneer apartment, N. Third Ave.

Tenn., Memphis—Mrs. N. Sullivan erect \$10,000 brick veneer apartment, 897 Barton St.

Tex., Fort Worth—C. D. Wiggins, 3600 Arlington Heights Bldg., has permit for \$20,000, brick veneer apartment, 3510 W. 17th St.

Tex., Giddings—Chamber of Commerce Hotel Comm., E. M. Collier, Chmn., promoting erection hotel.

Tex., San Antonio—Club Apartment Hotel Corp., 1008-10 Milam Bldg., being organized to erect \$900,000, 15-story, and roof garden, and rein. conc. apartment hotel, Tobin Circle and Fourth St.; auditorium with stage seating approx. 400 convertible into ball room, separate kitchen for banquets, another auditorium to seat 100 people; basement with swimming pool, Turkish baths; shops, lounge rooms, dining room, coffee shop and beauty parlor on main and mezzanine floors; Adams & Adams, Archts., Real Estate Bldg.

Miscellaneous

Fla., Palm Beach—Everglades Club has permit for \$24,000 repairs to club.

Miss., Armory—Gilmore Library Assn. Bd. of Trustees erect library and community house; \$20,000.

Mo., Dora—Rainbow Springs Resort and Fisheries, Inc., H. G. Calkins, Treas., 208 Broadway, St. Louis, erect hotel, 25 cottages, picture show, stores, public garage, etc., in connection with development of summer resort in Ozark County near Dora; provide tennis courts, golf course, air landing field; Russell & Axon, Engrs., McDaniel Bldg., Springfield, and Ry. Exchange Bldg., St. Louis; Ferrand & Fitch, Archts., 6188 Delmar Blvd., St. Louis. 11-1

Mo., St. Louis—Lutheran Altenheim Assn., Louis H. Waltke, Chmn., Executive Bd., erect \$125,000 building, Lafayette Ave. and Preston Place; T. P. Barnett, Archt., Arcade Bldg.

Mo., St. Louis—Ziegenheim Bros. Livery and Undertaking Co., 2623 Cherokee St., erect 2-story and basement, 126x70 ft., brick and rein. conc. funeral parlor and chapel, 6000 S. Kingshighway Blvd.; T. P. Barnett Co., Archt., Arcade Bldg.; Taxis & Becker, Struct. Engrs., Chemical Bldg.

Tenn., Memphis—Convent of Good Shepherd plans purchasing 50-acre site north of Walnut Grove road and west of Hedgemore subdivision and erect buildings for home for girls to cost \$500,000.

Railway Stations, Sheds, Etc.

Tex., Beaumont—Missouri Pacific R. R., C. S. Kirkpatrick, Ch. Engr., 204 Union Station, Houston, has low bid from King-Huff Construction Co. for rebuilding and enlarging freight depot.

Schools

Ark., Armstrong Springs—Morris Institute soon let contract for 1-story and basement recreational building and 2-story and basement classroom and dormitory; brick, \$100,000; Thompson, Sanders & Ginocchio, Archts., Hall Bldg., Little Rock. 9-13

Ark., Keiser—Consolidated School Dist. No. 31, J. K. Childs, Sec., call for bids about Nov. 15 for \$60,000, 2-story and basement, brick and conc., fireproof high school; comp. roof; Uzzel Branson, Archt., Farmers Bank Bldg., Blytheville.

Ark., Little Rock—North Little Rock Special School Dist., W. H. Phipps, Sec., rejected bids and receive new bids Nov. 19 for \$500,000, 4-story and basement, brick, conc. and stone trim high school; separate bids for plumbing, electrical work, heating and ventilating; George R. Mann, Wanger & King, Archts., New Donaghey Bldg. 11-1

Ark., Rudy—School Bd. erect 3-room brick or stone school.

D. C., Washington—District Engineer Dept., Roland Brennan, Ch. Clk., has low bid at \$259,500 from G. G. Loehler Construction Co., Franklin Nat'l Bk. Bldg., for 16-room Langdon School, including gymnasium and assembly hall, 19th, 20th, Everts and Franklin Sts.; A. L. Harris, Municipal Archt. 10-25

Fla., Tallahassee—State Bd. of Control, P. K. Yonge, Chmn., Carling Hotel, Jacksonville, receives bids Nov. 12 for dormitory at Florida Agricultural and Mechanical College for Negroes; plans from Rudolph Weaver, Archt., 200 Peabody Hall, Gainesville; following contractors estimating: General—Chas. J. Davis, Jr., Phyllis St.; Christopher & Co., 608 Riverside St.; Neal D. Evans, Adair Bldg.; R. J. Gallepie, 111 W. Ashley St.; Sutton Bros., Atlantic National Bank Bldg.; D. D. Thomas & Son, Hildebrandt Bldg.; O. P. Woodcock Co., Lutz Bldg., all Jacksonville; Berg-Marshall, Inc., 107½ S. Florida Ave., Lakeland; J. L. Crouse, American Bank Bldg., Greensboro, N. C.; Caluson & Fellows, Sumner Bldg., St. Petersburg; Grahn Construction Co., 133½ Magnolia Ave., Daytona Beach; O. O. Hanner, Inc., Coral Gables; J. C. Hanner, Lake City; Harrison Construction Co., 235 N. E. 35th St., Miami; plumbing and heating—Henry T. Diehl, N. Monroe, Tallahassee; A. L. Merrifield Co., Quincy; J. D. Points & Co., Palatka; Kaylor Plumbing Co., 906 E. Broadway, Tampa; Polson & Atkinson Co., Panama City; electrical—Lipscomb & Roe Electric Co., 211 E. Lemon St., Lakeland; Monroe Electric Co., Inc., 1107 Highland Ave., Tampa; James Watts & Bro., Thomasville, Ga.; Ayers Electric Co., 14 N. Orange St., Orlando; Electric Engineering Co., Chipley; Polson & Atkinson, Inc., Panama City; Thomasville Hardware Supply Co., Thomasville.

Fla., Tampa—Hillsborough County Bd. of Public Instruction erect Booker T. Washington negro school; Frank A. Winn, Archt., 207½ Twiggs St.; bids in.

Ga., Thomson—Bd. of Education, G. White Jordan, Sec., has low bid from The Palmer Co., Thrower Bldg., Atlanta, for \$100,000 brick veneer high school; two wings 1-story and basement, 289x57 ft. each with auditorium connection of 1-story and basement, 62x56 ft.; cast stone trim, asphalt shingle roof, tile, conc. and wood floors; Wm. J. J. Chase, Archt., 140 Peachtree St., N. E., Atlanta. 10-25

Ky., Bowling Green—Western State Teachers' College plans \$300,000 Kentucky Bldg.; tentative plans call for 184x50-ft. structure; College Heights Foundation in charge of campaign for funds.

Ky., Louisville—Kentucky Home School Alumnae, Mrs. H. Farnsworth Bryant, Chmn., Executive Comm., plan formation of holding

company for purchase property, 1649 Everett Ave., and erection auditorium-gymnasium and additional classrooms for school to be known as Belle Peers Memorial Hall; D. X. Murphy & Bros., Archts., Louisville Trust Bldg.

La., New Orleans—Orleans Parish School Bd., Municipal Office Bldg., plans to call for bids during November for 3-story, rein. conc., brick and stone trim, 20-classroom Merrick School; comp. roof; E. A. Christy, Supvg. Archt. 8-30

La., Walker—Livingston Parish School Bd., E. S. Easterly, Supt., Denham Springs, call for bids in about 30 days for \$45,000, 2-story, rein. conc., brick and stone trim, 10-classroom and auditorium high school; tile and comp. roof; Wm. R. Burk, Archt., Balter Bldg., New Orleans. 9-6

Miss., Jackson—Millsaps College, Dr. D. M. Key, Pres., receives bids Nov. 14 for \$150,000, 2-story and basement, rein. conc., brick, limestone or cast stone trim science building; auditorium 37x53 ft.; plans from Harry N. Austin, Archt., Daniel Bldg. 8-9

Mo., Kansas City—Rt. Rev. Thomas F. Lillis, Bishop of Kansas City Diocese, plans establishment of St. John's Catholic Seminary on 80-acre site, Hillcrest and Bannister roads; \$400,000.

N. C., Goldsboro—Wayne County Comms. sold \$277,000 bonds, \$173,000 to be used for new schools in county.

N. C., Greensboro—Immanuel Lutheran College, Wm. H. Gehrke, plans to call for bids about Dec. 1 for \$70,000, 3-story brick building containing assembly room, library, reading room on first floor, science department, 2 classrooms, administration offices on second, 6 classrooms on third; also for \$30,000 combination church and elementary school of English parish type; Theodore Steinmeyer, Archt., International Life Bldg., St. Louis, Mo. 11-1

N. C., Mineral Springs—Union County Bd. of Education, T. H. Cash, Supt., Munroe, considering erecting \$60,000, 10-room school.

Okla., Cyril—Bd. of Education erect \$18,000 school; The Huseman Co., Archt., Chickasha, completing plans.

Tenn., Chattanooga—Bonny Oaks Industrial School, W. S. Keese, Supt., plans \$20,000 brick chapel to be known as John W. Bachman Memorial Chapel.

Tex., Alice—School Bd. considering erecting high school.

Tex., Anson—Jones County Bd. of Education, Miss Luella Hawk, Supt., plans \$24,500 school in Goodman School Dist.

Tex., Brady—City voted \$135,000 bonds for brick and rein. conc. high school and gymnasium; W. I. Brogden, Sec., School Bd.; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 10-18

Tex., Harlandale, San Antonio—Harlandale School Dist. votes Nov. 17 on \$200,000 school bonds; Bd. of Education, care M. L. Rees, 410 Pacific Ave.

Tex., Houston—Bd. of Education, H. L. Mills, Bus. Mgr., has plans by Hedrick & Gottlieb, Post-Dispatch Bldg., for \$160,000, addition to Jefferson Davis Senior High School, 1201 Quitman St.; also has plans by R. D. Steele, First Nat'l Bank Bldg., for 9-classroom and auditorium, rein. conc., brick, hollow tile and stone trim addition to Jack Yates negro high school, 2610 Elgin Ave.

Tex., Houston—Bd. of Education, H. L. Mills, Bus. Mgr., having plans prepared by Harry D. Payne, Kirby Bldg., for 3-story, 55x97 ft., 25 classroom and auditorium, cafeteria-play room, rein. conc., hollow tile, brick, stone trim addition to Phyllis Wheatley Negro High School; also having plans prepared by Hedrick & Gottlieb, Post-Dispatch Bldg., for classroom and auditorium addition to Harper negro elementary school, 3203 Center St.

Tex., Orange—McLewis School Dist. No. 15, Orange County, voted \$12,000 bonds for brick, 4-room school; Livesay & Wiedeman, Archts., 607 San Jacinto Life Bldg., Beaumont. 10-18

Tex., Poteet—School Bd., R. S. Guynes, Sec., has low bid from W. O. Wells for \$18,000, 1-story, brick, rein. conc., cast stone trim, 3-room and auditorium high school; Chas. T. Boelhauwe, Archt., Aztec Bldg., San Antonio. 10-18

Tex., San Antonio—Mission Home and Training School Bd. of Managers considering erecting building.

Va., Richmond—City considering \$850,000 bond issue for West End High School; Chas. M. Robinson, Archt., Times-Dispatch Bldg. 11-18

Stores

Ala., York—Long-Wall Hardware Co. erect 1-story, 38x100-ft. brick store, First Ave. and Broad St.

D. C., Washington—Arthur Gay erect \$15,000, 3-story brick addition to building, 722 Seventeenth St., N. W.

Fla., Bartow—George White, 395 S. Floral Ave., has low bid from Burrows Construction Co., 680 Lasereña St., for \$22,000, 2-story, brick and stucco store and office; E. K. James, Archt., 590 S. Floral Ave.

Fla., Fort Myers—Heltman Estate, Gilmer M. Heltman, Mgr., 1024 First St., erect addition to and remodel store on First St. to be occupied by McCrory Stores, Inc., 1107 Broadway, New York; 2 stories, 64x50 ft., brick; N. G. Walker, Archt., Arcade Bldg. 10-18

Fla., Plant City—E. W. Wiggins erect 6-story building on Reynolds St.

Fla., Tampa—T. B. Lucas, 105½ Amelia Ave., erect \$20,000 store, Lafayette and Morgan Sts.

Ga., Atlanta—Pringle & Smith, Archts., Norris Bldg., prepared plans for interior and exterior improvements to 3-story and basement, brick and conc. building on Peachtree St. for Zachry Stores.

Ga., Augusta—C. H. Schneider, 1116 Broad St., has low bid at \$52,600 from Sibert & Robinson, 126 Eighth St., for improvements to 3-story, 47x272-ft. brick and conc. building, 1108-14 Broad St., to be occupied by Montgomery Ward & Co.; Story & Clark, Archts., Leonard Bldg. 10-11

Ky., Louisville—Louis Appel Co., Inc., 407 S. 4th St., plans store on Fourth Ave.

Md., Baltimore—The Read Drug & Chemical Co., Howard and Lexington Sts., leased 3-story building, Lexington and Liberty Sts.; expend \$20,000 for improvements.

Miss., Natchez—Joseph F. Dixon, Dixon & Kellogg, Main St., erect \$18,000 to \$20,000, 2-story and basement, 58x118-ft., brick and steel store, 517 Main St., to be leased to Montgomery Ward & Co., Chicago; oak floors, metal or built-up roof; Wm. Steitenroth, Archt. See Want Section—Building Material and Equipment. 11-1

Mo., Springfield—J. C. Penney Co., B. K. Humphreys, Mgr., erect \$50,000, 2-story and basement, 42x81 ft., store, 220-22 S. Campbell Ave.

Mo., St. Louis—Peters Dry Goods and Clothing Co., Louis B. E. Peters, 2600 N. 14th St., remodel 3-story brick store; Wedemeyer & Nelson, Archts., 824 Wainwright Bldg.

Mo., St. Louis—Boyd-Richardson Men's Apparel Co., 600 Olive St., leased 7-story Tower Bldg., 6th and Olive Sts.; redecorate and rearrange.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Mo., Kansas City—Scottish Rite Temple Assn., 15th and Troost Aves., let contract to Swenson Construction Co., Shubert Bldg., for \$1,000,000 temple, Linwood Blvd. and the Paseo; 175x205 ft.; furnishings, equipment, etc., \$250,000; Keene & Simpson, Archts., Land Bank Bldg. 8-30

Okla., Hollis—Ancient Free and Accepted Masons erect \$25,000 temple; 2 stories; first floor leased to Government for post office; E. W. Baker Construction Co., Contr., Perrine Bldg., Oklahoma City. 11-1

Bank and Office

Ark., Little Rock—A. N. McAninch, 2819 Wolfe St., excavating for \$100,000 office bldg., W. Second St. near Spring St.; conc. frame, brick curtain walls, 5 stories, 40x50 ft., cement and terrazzo floors, conc. foundation, comp. roof; plans by owner; John C. Riddell, Engr., care Gordon Walker, Contr., 1014 Rector Bldg. See Want Section—Building Material and Equipment. 11-1

Fla., St. Petersburg—First Security Bank let contract to O. G. Derby for \$30,000 bldg., Fourth Ave., North, and Ninth St.; brick; banking quarters and 2 stories; furniture and fixtures from Tampa Show Case & Fixture Co., 300 S. Rome St., Tampa. 10-11

Tenn., Memphis—J. W. Hull Plumbing & Heating Co., 1144 Madison Ave., has contract at about \$200,000 for plumbing, heating and ventilation for \$250,000 Sterick Bldg. for Wyatt C. Hedrick, Archt., First Nat'l Bank, Fort Worth, Tex.; Bellows-Maclay Construction Co., Contr., Constr. Indus. Bldg., Dallas, Tex. 11-1

N. C., Raleigh—McLellan Stores, Inc., purchased 4-story building on Fayetteville St.; remodel.

N. C., Wilmington—George Ofiesh erect 1-story brick store, Second and Grace Sts.

Tenn., Friendship—L. F. Potts erect store to replace burned structure.

Tex., Dallas—Henry Boedeker Estate has permit for \$25,000, 2-story, brick building, 131-5 Lancaster St.

Tex., Houston—John H. Wynne, 2410 Cleburne St., has plans by Brickey, Wiggins & Brickey for \$25,000, 1-story, 60x100 ft., hollow tile and brick store, La Branch St. and Blodgett Ave.

Tex., McAllen—Richard & Rhumaker soon call for bids for \$10,000, 2-story, 25x100 ft., brick and hollow tile store and apartment; conc. and hardwood floors; A. H. Woolridge, Archt.

Tex., San Antonio—Craig J. Adams, 830 W. Magnolia St., erect 1-story, 30x70-ft. brick, hollow tile store; to be leased to Saunders-Allen Co.; Adams & Adams, Archts., Real Estate Bldg.

Tex., Temple—J. P. Charlton and associates erect \$40,000, 1-story building, Third St. and Avenue G.

Tex., Waco—F. E. Goodman, Waco, C. L. Westbrook, Lorena, and C. A. Westbrook, San Angelo, remodel 50x165-ft., 2-story building, Eighth St. and Austin Ave., to be leased to Asher Sanger Department Store, Asher Sanger, Pres.

Va., Norfolk—Marstella Construction Co. plans to erect \$10,000, stucco and brick building, Granby and 35th Sts., for curb service de luxe drug store to be operated by Dr. W. T. Monroe of Park Place Pharmacy, 35th St. and DeBree Ave.; provide 3-car driveway and park circling around building; A. O. Ferebee, Archt., Arcade Bldg.

Theaters

Fla., Clearwater—Frank J. Booth repair Fort Harrison Theater, to be leased to Clearwater Amusement Co.

Fla., Lake Worth—Publix Theaters Corp., T. W. Williams, Local Mgr., erect \$50,000 moving picture theater.

Fla., Tampa—Leon Cazin Enterprises, Inc., 1137 Main St., having plans prepared by Nicholas Mitchell, Southern Bldg., for \$30,000 brick and rein. steel theater on Main St. near Howard St.; seat 750 people; 6 offices on second floor; vitaphone, movietone, furnishings and other equipment probably increase cost to \$75,000; R. A. Holzseiter, 940 Shadowlawn St., in charge of decorations.

Warehouses

Tex., Plainview—L. S. Kinder and J. N. Jordan erect \$20,000 warehouse.

Tenn., Memphis—Stone Mountain Granite Corp., Healey Bldg., Atlanta, Ga., has contract for granite base for \$2,000,000 bldg. for Bank of Commerce and Trust Co.; struct. steel, Pidgeon Thomas Iron Co., 94 N. Second St., Memphis, Tenn.; stone, Indiana Limestone Co., Bedford, Ind.; 100 tons rein. steel to Laclede Steel Co., St. Louis, Mo.; excavation, E. A. Devin, Memphis; Harker & Cairns, Archts., 123 S. Court St.; S. & W. Construction Co., Contr., both Memphis. 11-1

Tex., Dalhart—First National Bank remodel building; buff brick exterior; \$10,000; Chas. Nicholson, Contr.

Tex., San Antonio—Alamo National Bank, Ernest L. Brown, Vice-Pres., let contract to McKenzie Construction Co., Travis Bldg., for \$2,000,000 bank and office bldg., St. Marys, Market and Commerce Sts.; 16 to 22 stories, brick, stone and rein. conc., steel constr.; Graham, Anderson, Probst & White, Archts., 80 E. Jackson Blvd., Chicago, Ill.; razing structures on site, W. B. Speegle, 531 Castro St. 10-11

Va., Newport News—Virginia Engineering Co., First National Bank Bldg., has contract for \$110,000 medical arts bldg., 29th St. and West Ave.; 4 stories, first floor white stone, pressed brick above, fireproof; foundation to carry 2 additional floors.

Churches

Ala., Birmingham—Twenty-third Street Baptist Church erect \$35,000 bldg.; brick, 1 story, 73x149 ft., tar and gravel roof; T. C. Windham & Son, Contrs., 1620 N. Fourth Ave.

Ala., Birmingham—Grants Chapel A. M. E. Church, Avenue D and 30th St., South, completed basement of \$25,300 bldg.; brick, tile, conc. and steel, 3 stories, 45x75 ft., cement

and oak floors, asphalt built-up roof; furnishings, equipment, etc., \$5000; Meeks & Son, Inc., Archts.-Contrs., 5632 First Ave. 11-1

Miss., Clarksdale—Beth Israel Congregation let contract for \$35,000 synagogue to O. B. Douglas, Drew; rein. conc., brick, stone trim, 1 story and basement, 52x57 ft.; Robt. J. Moor, Archt., Greenwood. 10-11

Mo., Independence—First M. E. Church, South, Spring St. and Maple Blvd., let contract for Sunday school to Randall Bros. & Hurst at \$41,000; 3 stories; remodel church; H. D. Pampel, Archt., Finance Bldg., Kansas City.

Tex., Corpus Christi—Christian Church, H. M. Whaley, Chmn., Bldg. Comm., let contract to Geo. M. Beloto, Box 1088, for superstructure; brick, cast stone, tile and rein. conc., 2 stories, 109x57 ft., Spanish tile roof; Hamon & Co., Archts., City Natl. Bk. Bldg.

Tex., White Deer—Presbyterian Church, Mrs. Walter McConnell, interested, erecting annex.

Va., Berkley, Norfolk—Memorial Methodist Church erect \$10,000 Sunday school addition; H. C. Land, Contr., 1005 Farquier St.

City and County

Mo., St. Louis—Board of Public Service, City Hall, let contract to International Co., Buder Bldg., for Fire Engine House No. 15, Broadway near Spruce St.; \$50,000, brick, 2 stories; E. E. Christopher, Archt., City Hall. 9-27

Tex., Vernon—City, S. H. Hall, City Sec., let contract for \$100,000 city hall to Taylor Bros., Wichita Falls; brick, steel and conc., 3 stories, 54x100 ft., conc. floors and foundation, comp. roof; R. H. Stuckey, Archt., Box 1406; electric work, West Texas Electric Co.; plumbing, H. G. Michels, all Vernon. 4-19

Dwellings

Ala., Birmingham—R. E. Lowery erect \$35,000 dwelling, Mountain Brooke Estates, and \$20,000 dwelling, Redmont Park; brick veneer, 2 stories, 50x44 ft. and 48x33 ft., asbestos shingle roofs, steam heat; Jacob E. Salle, Archt., Exch. Bldg.; day labor.

Ala., Birmingham—W. A. Currie, Mountain Brooke Estates, erect \$20,000 residence; brick veneer, 2 stories, 48x33 ft., asbestos shingle roof, steam heat; Jacob E. Salle, Archt., Exch. Bldg.; day labor.

Ala., Birmingham—Jas. Turner erect brick residence, Milner Heights; 2 stories and basement; H. D. Breeding, Archt., 110 1/2 Twenty-first St.; day labor.

Ala., Talladega—Bemis Bros. Bag Co., 901 S. Fourth St., St. Louis, Mo., has not yet let contract for employees' dwellings; Fiske-Carter Construction Co., Masonic Temple Bldg., Greenville, S. C., lately incorrectly reported as contractor for dwellings, advises plans for dwellings have not been released by Engrs. 11-1

Ark., Little Rock—Sun Building & Development Co., Rector Bldg., has permit for two \$7500 dwellings and garages, Spruce St.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St., N. W., have permit for stone dwelling, 4801 Indian Lane, N. W.; 3 stories, \$25,000; owners build.

D. C., Washington—L. E. Breuninger & Sons, Colorado Bldg., erect \$12,500 dwelling, 1312 Iris St., N. W.; brick, 2 stories; owner builds.

Fla., Jacksonville—J. E. Wilson, Ortega, has contract for \$15,000 dwelling, 1433 Windsor Place; brick veneer, 2 stories and basement, hardwood floors, comp. shingle roof.

Fla., Miami Beach—Roy F. Rutzahn erect \$24,000 residence and garage, 4001 Indian Creek Drive; conc. block, 2 stories, 31x61 ft., tile and wood floors, tile roof; F. Wyatt Woods, Archt., Miami; owner builds.

Fla., New Port Richey—Thos. Meighan let contract to American Sanitary Sewage Corp., 206 S. Franklin St., Tampa, for Roman plunge on estate; 60x25 ft., lined with terrazzo and tile, 70,000 gal. capacity; also 51x 114-ft. tennis court, comp. coating, steel wire mesh backstop; stucco and tile solarium to contain showers, dressing rooms, etc.; conc. retaining wall around property; use Florida materials; total \$25,000. 11-1

Fla., West Palm Beach—W. H. Ruland started work on \$30,000 residence, Wells Road.

Fla., West Palm Beach—J. S. Phipps, N. Ocean Blvd., started work on \$25,000 swimming pool and wall on estate.

Fla., West Palm Beach—Albert Kay, 518 31st St., started work on \$30,000 seawall on estate, S. Ocean Blvd.

Fla., West Palm Beach—Rodman Wana-maker, N. Ocean Blvd., repairing residence; \$55,000.

Fla., West Palm Beach—A. B. Clafin, S. Ocean Blvd., repairing residence; \$10,000.

Fla., West Palm Beach—F. D. Frazier repairing building; \$11,000.

Ga., Atlanta—I. N. and H. H. Wilson, 315 Georgia Sav. Bk. Bldg., erect 2 brick veneer dwellings, 2074-80 Dunwoody St., N. E.; 1 story, 6 rooms and bath, hardwood floors, hot air heat; \$10,000; day labor.

Ga., Atlanta—Brady Harper, 116 Huntington Rd., erect 3 brick veneer dwellings, 515 Terrace Ave., N. E.; 1 story, \$11,250; owner builds.

Ga., Atlanta—Harold McKenzie Co., Candler Bldg., has contract for dwelling, Ridge-wood Drive, Druid Hills, and for dwelling, Berkeley Rd., Avondale Estates.

Ga., Atlanta—Fred J. Messick, 1633 Moreland Ave., N. E., Apt. A, let contract for \$10,000 residence, 823 E. Morningside Drive, N. E., to H. G. Jacobs, 1 Potomac Ave.; conc. tile, 1 1/2 stories and basement, 7 rooms, 2 baths, asbestos shingle roof.

La., New Orleans—Mrs. C. Yager, 226 Alix, erect single 2-story residence, Gen. Pershing St. near Laurel St.; Julian & Osborne, Contrs., 1024 Toledane St.

La., New Orleans—Geo. J. Lupo, Contr., 3419 Milan St., erect double dwelling, Catina and Scott Sts.

La., New Orleans—Henri G. DeFraitres, Contr., 304 Camp St., erect double dwelling, 1306 Arabella St.

La., New Orleans—Mr. Imhoff erect single residence, Derbigny and Roman Sts.; J. T. Boesch, Contr., 1307 Spruce St.

La., Shreveport—Dr. F. G. Ellis, 941 Margaret St., erect \$13,000 residence, 4623 Fairfield Ave.; 2 stories; Longeran Building Co., Contr.

Md., Baltimore—Jos. Peters, Falls Road, erect 17 brick dwellings, 1221-53 W. 40th St.; 2 stories, 16.6x43.6 ft. and 14.11x43.6 ft., steam heat; \$37,500; Chas. H. Callis, Archt., 2055 Kennedy Ave.; owner builds.

Md., Baltimore—John H. Sause, Jr., 3100 Fait Ave., completed foundations for 4 frame dwellings, 2826-32 Beechland Ave.; 1 1/2 stories, 24x32 ft., composition roofs; T. H. Webb, Archt., Parkville; Necher Bros., Contrs., Carney. 11-1

Md., Baltimore—A. E. O. Munsell, 10 E. Franklin St., erect \$40,000 residence, Montrose Ave. and N. Bellona Ave.; brick, 3 stories; Palmer & Lambdin, Archts., 513 N. Charles St.

Miss., Jackson—H. H. Creekmore, 835 Fairview St., erect 2 brick veneer dwellings, Pinehurst St.; 2 stories and basement, 54x 41 ft., wood floors, comp. roof, tile bath, furnace heat; \$21,000; J. B. Cole, Contr.

Miss., Kosciusko—Jim T. Crowley erect \$10,000 residence; brick, 1 story, 54x57 ft., hardwood floors, hot water heat; Frank P. Gates Co., Archt., Edwards Hotel, Jackson; S. G. McCool, Contr., Kosciusko.

Miss., Magnolia—Methodist Church erect parsonage; contract let. Address The Pastor.

Mo., Clayton, St. Louis—Herman Mayer, 6725 Crest Ave., erect \$15,000 residence, Moorlands Park; brick, 2 stories and basement, 37x44 ft., hardwood floors, tile bath, stone foundation, hot water heat; Herman Mayer Co., Contr., 3617 S. Grand Blvd.

Mo., Clayton, St. Louis—A. J. Levy, 5111 Waterman Ave., erect \$30,000 residence, Boland Drive, Moorlands; brick and stone, 2 stories and basement, 47x60 ft., hardwood floors, tile baths, slate roof, vapor heat, oil burner, elect. refrigerator, incinerator; Maritz & Young, Archts., Chem. Bldg.; work by sub-contracts.

Mo., Clayton, St. Louis—Kuhn & Kuhn, 5812 Columbia St., erect \$12,000 dwelling, Moorlands; brick, 40x30 ft.; owners build.

Mo., Kirkwood, St. Louis—Marion E. Wakefield, 5036A Parker Ave., erect \$20,000 residence, Osage Hills; brick, 2 stories and basement, 49x32 ft., hardwood floors, tile bath, comp. roof, hot water or vapor heat; owner builds.

Mo., St. Louis—A. A. Williams, 4993 Blow St., erect \$10,000 brick dwelling, Stanley Ave.; 1 story and basement, 31x47 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; O. J. Popp, Archt., Arcade Bldg.; owner builds.

Mo., St. Louis—Benclair Realty Co., 220 Wainwright Bldg., erect 3 brick dwellings, 4049-53-57 Parker St.; 1 story and basement, 25x44 ft., hardwood floors, tile bath, slate shingle roof, hot air heat; \$15,000; F. G. Avis, Archt., 1021 Big Bend Blvd.; W. J. McCully, Contr., 4961 W. Pine Blvd.

Mo., St. Louis—M. D. McCully, 4961 W. Pine St., erect 3 brick dwellings, 4049-53-57

Parker St.; 1 story, 25x44 ft., slate shingle roofs, hot air heat; \$15,000; F. G. Avis, Archt., 1921 Big Bend Road; W. J. McCully, Contr., 4961 W. Pine.

Mo., St. Louis—M. Bauman erect 2 brick dwellings, 4122-24 Utah St.; 1 story, 26x40 ft., asphalt shingle roofs, hot air heat; \$10,000; E. Kraft, Archt.; Hamilton Construction Co., Contr., all Wainwright Bldg.

Mo., St. Louis—A. C. Beckemeier, Intl. Life Bldg., erect \$10,000 residence, 5701 S. Grand Ave.; 2 stories, 32x30 ft., slate roof; E. Preisler, Archt., 11th and Clark Sts.; owner builds.

Mo., St. Louis—H. Kobermann erect 11 brick dwellings, 4064-68-70-74 and 4112-18-22-28 Alma, 4220 Ellenwood, 4043 Toenges and 4136 Kingshighway; 2 stories, 22x20 ft. and 24x43 ft., asphalt roofs, hot air heat; \$14,000; A. Kobermann, Archt.-Contr., both 7242 Gravois St.

Mo., St. Louis—Studdt-Wilson, Central Bldg., Clayton, erect 2 dwellings, Wydown Forest, Clayton, and 2 dwellings, Corbett Ave. and Melrose Ave., both University City; brick, hollow tile, 1 story and basement and 2 stories, hardwood floors, tile baths, slate, comp. shingle and asphalt roofs, hot water and hot air heat; F. G. Avis, 1021 Big Bend Blvd., Archt. for Clayton dwellings; work by sub-contract.

Mo., St. Louis—O. Fischer, care McKelvey-Carter Co., Contr., 3800 W. Pine St., erect brick dwelling, Denny and Conway Roads, Clayton Terrace; 2 stories and basement, about 86x33 ft., asphalt shingle roof, hot water or steam heat.

Mo., St. Louis—C. F. Berkel, 4562A Oakland Ave., erect \$10,000 brick residence, 4969 Oleatha Ave.; 2 stories and basement, hardwood floors, tile bath, asphalt shingle roof, tile bath; E. Koch, Archt., 1317 Kentucky Ave.; A. R. Darr, Contr., 4300 Dewey Ave.

Mo., University City, St. Louis—Wm. H. Duenke, 8306 Eads Ave., erect 3 brick dwellings, 7378-63 Liberty and 6555 Avalon Ave.; 1 1/2 stories and basement, 24x38 ft., hardwood floors, tile baths, comp. shingle roofs, hot air heat; owner builds.

Mo., University City, St. Louis—Roy O. Finch, 7034A Dartmouth St., erect \$15,000 residence, 7241 Cambridge Ave.; brick, 2 stories and basement, 29x31 ft., hardwood floors, tile bath and roof; work by sub-contract.

Mo., University City, St. Louis—O. M. James, Fairmount Hotel, started work on \$15,000 residence, 7449 Kingsbury Ave.; brick, 1 1/2 stories and basement, 40x27 ft., hardwood floors, tile bath, slate or tile roof, vapor heat; Edw. B. Kelley, Archt., 6625 Delmar Blvd.; work by sub-contract.

Mo., University City, St. Louis—Uda Lurie erect \$12,000 brick duplex, 7468-70 Delmar Blvd.; 2 stories, 29x60 ft., asbestos roof, steam heat, 20x22-ft. garage; Geo. Sokol, Contr., both 7069 Pershing St.

Mo., University City, St. Louis—M. M. Hendler, 7350 Amherst St., erect \$10,000 duplex and garage, 7220 Pershing St.; 2 stories, 29x66 ft., tile roof, vapor steam heat; Edw. B. Kelley, Archt., 6625 Delmar Blvd.; owner builds.

Mo., University City, St. Louis—Wm. Sinx, 3801 Salome St., Pine Lawn, let contract to F. F. Meckfessel Construction Co., 6625 Delmar Blvd., for \$15,000 residence, Bedford Ave., University Hills; brick, 2 stories and basement, 41x46 ft., tile bath, hardwood floors, stone foundation, slate roof, vapor heat; Edw. B. Kelley, Archt., 6625 Delmar Blvd. 9-20

Mo., University City, St. Louis—Hackney Investment Co. erect 4 brick bungalows, 6708 Chamberlain St.; 1 1/2 stories, 25x44 ft., asphalt shingle roofs, steam heat; \$16,000; C. Cath, Jr., Archt., both 3758 Bates St.

N. C., Charlotte—H. C. Sherrill Co., 34 S. Tryon St., erect 6 brick veneer and frame dwellings, Durwood Drive and Greenwood Cliff; 1 and 2 stories; \$30,000; also \$5000, one-story brick shop, Romany Road; owner builds.

N. C., Winston-Salem—Norman V. Stockton, 1149 W. 4th St., erect brick Colonial residence, Kent Road, Reynolds Park; 10 rooms; Fogle Bros. Co., Contr.

Tenn., Knoxville—Fretz Realty Co., 616 Market St., started work on Dutch Colonial dwelling, Rose Ave. and West End Place, and one in Fountain City; brick and shingle.

Tenn., Memphis—N. Welsman, National and Summer Aves., erect 2 duplexes, 1586-90 Jackson Ave.; brick veneer, 1 story and basement, oak floors, tile baths, comp. shingle roofs, hot water heat; \$10,000; L. C. Walker, Contr., 975 Forest St.

Tenn., Memphis—L. C. Moser, 1465 Snowden St., erect \$10,000 residence, 769 University St.; brick veneer, 1 story and basement,

36x62 ft., oak floors, comp. shingle roof, stone trim; J. J. South, Contr., 435 Garland Ave.

Tex., Brownsville—C. P. Barreda let contract at about \$17,867 to Barnes & Kemmy for brick veneer and hollow tile residence; 2 stories, conc. foundation, tile roof; Ben C. Clark, Archt. 10-11

Tex., Gonzales—Mrs. A. L. Anderson erecting residence.

Tex., Houston—Frank W. Michaux, Montrose Apts., started work on \$25,000 English type residence, 2400 Southmore Blvd.; brick veneer, 2 stories, 32x60 ft.; Emory White, Archt.; L. B. Sligar Building Co., Contr.

Tex., Port Arthur—L. L. Alshire erect \$20,000 residence; rein. conc. and stucco, 2 stories, 9 rooms, tile roof; L. W. Lindsay, Contr.

Tex., San Antonio—R. C. Roos, 215 E. Park Ave., let contract for \$13,500 residence, 109 W. Elsmere Place, to P. F. Allen, 810 San Pedro St.; face brick and hollow tile, 2 stories, 9 rooms, 2 baths; Glenn C. Wilson, Archt., Milam Bldg. 9-27

Tex., San Antonio—Whorton Johnson, 266 E. Rosewood St., erecting 4 dwellings, Park Hill Drive, Park Hill Estates; frame and stucco, natural rock, 2 stories, 1100 sq. ft. per floor, hardwood and tile floors, conc. foundations, shingle and tile roofs, \$8000 to \$9000 each; may erect 6 to 8 additional dwellings; Homer Irving Messick, Archt., Bldrs. Exch. Bldg.; owner builds.

Tex., San Antonio—L. A. Casey, 321 N. St. Marys St., erect \$12,000 residence, 120 E. Elsmere St.; 9 rooms; South Flores Lumber Co., Contr., 2106 S. Flores St.

Tex., San Antonio—E. Edmondson, 434 Steves St., erect 5 frame and stucco dwellings, Steves St. near Olive St.; 5 rooms; \$14,000; owner builds.

Government and State

D. C., Washington—Baker Steel Co. has contract for 800 tons rein. steel for \$1,250,000 foundation work for \$17,000,000 bldg. for Department of Commerce; York & Sawyer, Archts., 100 E. 42nd St., New York; Edw. H. Bennett, Const. Archt., 80 E. Jackson Blvd., Chicago, Ill.; Consolidated Engineering Co., 20 E. Franklin St., Baltimore, gen. contract for foundation. 10-25

D. C., Washington—Government, David Lynn, Architect of the Capitol, let contract at \$120,000 to Carrier Engineering Corp., 750 Frelinghuysen Ave., Newark, N. J., for air conditioning and ventilation in connection with proposed \$500,000 reconstruction and relocation of Senate Chamber in Capitol; Carrere & Hastings, Archts., 52 Vanderbilt Ave., New York. 10-4

D. C., Washington—Concrete Steel Co., 42 Broadway, New York, reported, has contract for 500 tons rein. steel for Government work in Washington.

Md., Fort Leonard Wood—Following sub-contracts let for \$300,000 Infantry Battalion Barrack, for which Nichols & Lindemann, Inc., Seaboard Bk. Bldg., Norfolk, Va., have gen. contract: Reinf. steel, Kalman Steel Co.; sand and gravel, Arundel Corp., Pier 2 Pratt St.; cement, Lehigh Portland Cement Co., 326 St. Paul St.; brick and tile work, W. J. Hammett Co., 410 Old Town National Bank Bldg., all Baltimore, Md.; cut stone, Mutual Oilfield Cut Stone Co., Bloomington, Ind.; millwork, sash, doors, lumber, M. T. Blassingham Co., 27th and Hampton Blvd.; roofing, sheet metal and waterproofing, A. C. Dyer Co., 318 W. 24th St.; elect. work, Midland Engineering Corp.; iron and steel work, Hall-Hodges Co., Citizens Bank Bldg.; painting, O. K. Nestor, 737 Maryland Ave.; hardware, C. A. Nash & Son, Inc., 428 Granby St., all Norfolk; plumbing and heating, W. T. Powell Co., 2525 N. W. Pennsylvania Ave., Washington, D. C. 7-12

Hospitals, Sanitariums, Etc.

D. C., Washington—Casualty Hospital, Massachusetts Ave. near Seventh St., let contract to Wardman Construction Co., 1437 K St., N. W., for \$200,000 addition; 100 beds; H. C. McGuary, Archt., 1601 Twelfth St., N. W. 10-18

La., Shreveport—Cahn Electric Co., 708 Milam St., has wiring contract for addition to Charity Hospital; rein. conc., 3 stories, 60x80 ft. and 38x132 ft., conc. and tile floors, conc. bearing foundation, built-up roof, elevators, limestone, marble, metal doors, hol. low and interior tile, steel sash and trim, \$125,000; furnishings, equipment, etc., \$35,000; Seymour Van Os, Archt., City Bank Bldg.; H. & B. Construction Co., Contr., Ricou-Brewster Bldg. 11-1

Miss., Vicksburg—Vicksburg Infirmary let contract to C. E. Andrews, Ruston, La., for \$50,000 addition to and remodeling front of present building; rein. conc. foundation, tile and wood floors, struct. steel and iron work.

comp. roof, W. A. Stanton, Archt., Vicksburg.

Mo., Jefferson Barracks, St. Louis—Constructing Quartermaster, Sixth Corps Area, Chicago, Ill., let contract to Fred R. Comb Co., 2115 Chicago Ave., Minneapolis, Minn., and Wm. MacDonald Construction Co., Synd. Tr. Bldg., St. Louis, for rebuilding burned hospital, Jefferson Barracks; brick, 3 stories and basement; \$85,000. 11-1

Tex., San Angelo—Dr. H. P. Rush let contract to W. H. O'Connell for brick, stone, hollow tile and conc. hospital; fireproof, 3 stories, wood floors, elect. elevator, \$40,000; Roy K. Hamberlin, Archt., Ricker & Dodson Bldg. 10-11

Hotels and Apartments

Fla., Jacksonville—L. D. Hudson has permit for \$27,500, 2-story stone apartment, 316 E. Union St., for J. Hollingsworth.

Ga., Atlanta—M. L. Rauschenberg started excavation for 2-story and basement brick apartment on Collier Road; comp. roof, conc. and hardwood floors; owner builds.

Ga., Atlanta—O. T. Hennessee, Contr., 683 Juniper St., 8001 start work on s.x 16-unit apartments; \$250,000. See Want Section—Building Material and Equipment, Machinery and Supplies.

Ga., Atlanta—A. B. Reynolds, 1041 W. Peachtree St., erect \$50,000, 2-story and basement, 12-apartment on Austin Ave.; conc., hardwood and tile floors, built-up roof, steam heat; owner builds.

Mo., Jefferson City—Henry Ansel, remodel residence, \$50,000; E. Capitol Ave. and Cherry St., for 4-apartment; also erect 8-apartment adjoining; Henry Burbach, Contr.; Kennerly & Stigemeyer, Archts., Title Guaranty Bldg., St. Louis.

Mo., Kansas City—Brownhardt Investment Co., Frank Eberhardt, of Eberhardt Construction Co., 700 Dwig. Bldg., and associates, erect 10-story, fireproof, 77-apartment, Armour Blvd. and Charlotte St.; Alonzo H. Gentry, Archt., 202 March Bldg.

Mo., Marshall—L. M. Steele, 360 Eastwood St., started work on \$20,000, 2-story, 78x30-ft. brick and tile apartment; McCormick & Ellis, Contrs., Marshall; J. W. McCormick, Archt., Kansas City. See Want Section—Building Material and Equipment. 11-1

Mo., St. Louis—Lordell Realty Co., M. Finkelstein, 808 Washington Ave., let contract to Kopman Construction Co., Arcade Bldg., for 15-story brick, 120-apartment, Lindell Blvd. and Taylor Ave.; L. T. Craven Engineering Co., Archt.-Engr., Century Bldg.; Oman & Lienthal, Const. Archts., 435 N. Michigan Ave., Chicago.

Mo., St. Louis—Arnold R. Licklider Realty and Construction Co., 5405 Easton Ave., soon start work on \$50,000, 2-story and basement, 34x44 ft., brick, 4-apartment on Elmbank Ave., between Taylor St. and Cora Ave.; comp. roof, hardwood floors, hot air heat; Gerhard Becker, Archt., 425 Georgia Ave.; owner builds.

Mo., St. Louis—S. Gilman, 3620 Phillips St., erect \$10,000, 2-story, 22x55-ft. brick tenement, 3659 McDonald St.; comp. shingle roof, hot water heat; A. Hess, Archt.-Bldr., 3620 Phillips St.

Mo., St. Louis—B. Goldberg, 5845 Terry Ave., excavating for three 2-story and basement, 34x53 ft., brick tenements, 5848-58 Maffitt St.; comp. roof, hardwood floors, hot air heat; Ben Shapiro, Archt., 4202 Holly Ave.; owner builds. 10-25

Mo., St. Louis—Following additional sub-contracts awarded for \$1,000,000, 10-story and basement, 103x139 ft., br.ck. rein. conc., fireproof, 125-unit apartment Grand Blvd. and Magnolia Ave., for Carl Anschuetz, 3503 Sidney St., for which Boaz-Kiel Construction Co., 1207 Ambassador Bldg., has general contract: Excavation, J. E. Connelly Excavating Co., 841 Rosedale St.; electrical work, Chapline Electric Co.; misc. iron and bronze, Lasar Manufacturing Co., Railway Exchange Bldg.; millwork, Fox Bros. Planing Mill Co., Ohio and Sidney Sts.; glass and glazing, Hadley-Dean Glass Co., 703 N. 11th St.; J. T. Craven Engineering Co., Archt.-Engr., 949 Century Bldg. 11-1

Mo., St. Louis—A. P. Richardson, 5200 Nottingham Ave., excavating for four 2-story and basement, 34x53 ft., brick apartments, 5019-33 Lindenwood Ave.; \$60,000, hardwood floors, warm air heat, tile roofs; owner. Archt.-Bldr. 10-25

Mo., St. Louis—E. Niehaus, 2327 S. Broadway, erect two 2-story, 44x25-ft. brick tenements, 3941-49 Keokuk St.; \$10,000; comp. slate roofs, hot air heat; owner, Archt.-Bldr.

Mo., University City, St. Louis—Rallo & Bruggone Construction and Investment Co., 4659 Page St., erect two 2-story, 54x65 ft., brick, 4-apartments, 7330-34 Pershing Ave.;

\$40,000; rein. conc. roof slabs, slate roofs, hot water heat; A. B. M. Corrubia, Archt., Arcade Bldg.; owner builds.

Mo., University City, St. Louis—Blasdel Shapleigh, 3 Southmoor St., Clayton, erect \$10,000, 2-story, 27x48-ft. brick flat, 846 Pennsylvania Ave.; comp. roof, hot water heat; C. T. Miller, Contr., 5804 Amelia St.; Giel & Jackson, Archts., Buder Bldg.

Mo., University City, St. Louis—Roy O. Finch, 7030 Dartmouth St., erect 2-story, 26x45-ft. brick flat and garage, 7014 Tulane Ave.; tile roof, steam heat; owner builds.

Mo., University City, St. Louis—Margaret J. Hathorne, 6147 Kingsbury St., erect two 21x42-ft. brick flats; also 1-story, 1718-ft. brick garages, 6611-13 Bartmer Ave.; \$13,000; tar and gravel roofs, hot air heat; Herrie Harrington, Archt.-Contr., 6740 Olive St.

N. C., Winston-Salem—S. S. Bohannon & Co., Contrs., soon start work on 10-room, 2-family apartment, Glenn Ave. and Paterson Ave.; also 7-room dwelling on Waughtown St.

Okla., Oklahoma City—Verna Sellars started work on \$20,000, 2-story, brick veneer apartment and garage; C. M. Marshall, Contr., National Bank Bldg.

Okla., Tulsa—Mary Laura and G. N. Shoults, 1312 S. Quaker St., excavating for \$24,000, 2-story, 40x82 ft., brick veneer apartment; Freeman-Springer Construction Co., Contr.

Okla., Tulsa—The Bearden Plumbing Co., 317 East 4th St., has contract for plumbing and Charles Gray, brick work for \$110,000, 3-story, brick and hollow tile, 51-apartment for A. L. Martin, 13-B E. 18th St., on which work has started; owner supervising work.

Okla., Vinita—Manhattan Construction Co., Contr., Manhattan Bldg., Muskogee, probably erect 5-story hotel, containing 100 rooms, auditorium, sample rooms and restaurant, planned by group of local business men.

Tenn., Memphis—T. F. Lilley, 478 Union Ave., let contract to Davis & Phillips, 1937 Harbert St., for \$14,000, 2-story and basement, 28x105 ft., brick, 16-apartment, Orleans and Ponitoe Sts.; comp. roof, wood floors.

Tex., Port Arthur—Following sub-contracts awarded on \$450,000, 11-story, 75x130 ft., rein. conc. and brick hotel under construction for Marine Hotel Co., J. F. Goodhue, Goodhue Bldg., Beaumont, and associates: Heating and plumbing, The Warren Co., Inc., 614 Walker Ave., Houston; electric work, A. C. Electric Co., 1605 Patterson Ave.; steel joists, Truscon Steel Co., 115 Field St., both Dallas; steel, Orange Car and Steel Co., Orange; terra cotta, Kansas City Terra Cotta Co., Kansas City, Mo.; millwork, Port Arthur Planing Mill, Lakeshore Dr'Ve, Port Arthur; 2 passenger and one service elevator, not let; Tisdale, Stone & Pinson, Archts., 1103 Goodhue Bldg., Beaumont. See Want Section—Building Material and Equipment. 8-2

Tex., San Antonio—C. K. Callaway, 1140 W. Ashby Place, erect \$14,000, 2-story, stucco, 22-room apartment; Hayden Construction Co., 117 W. Laurel St.

Miscellaneous

Fla., Miami Beach—Miami Beach Amusement Co. started work on 90x115 ft., steel grandstand, 2½-story, rein. conc. clubhouse, 1-story frame cottage, dog track and kennels; \$250,000; Harrson Construction Co., Contr., Box 1993, Buena Vista Sta.; Weed & Virrick, Archts., 328 N. E. Second Ave.; Richard Belsham, Engr., all Miami. See Want Section—Building Material and Equipment. 11-1

N. C., Asheville—Presbyterian Asheville Farm School for Boys let contract to Southeastern Construction Co., 210 W. 2d St., Charlotte, for dormitory; \$100,000; 3 stories and basement, 40x187 ft., brick, tar and gravel roof, wood and tile floors; A. G. Lamont, Archt., 156 Fifth Ave., New York. See Want Section—Building Material and Equipment.

Tex., McAllen—Tom Faraklas soon call for bids for remodeling 2-story, brick cafe and erecting 1-story, 25x80 ft. addition adjoining; \$15,000; A. H. Woolridge, Archt.

Tex., San Antonio—American Building Co., Chas. K. Biggs, Real Estate Bldg., erect \$500,000 French Market, community center, Fredericksburg road, north on Donaldson Ave., west on Elmendorf St. and south on Gramercy place; number of 1 and 2 story structures to be built as unit around rectangular courtyard; rein. conc., stone, brick, tile and stucco, slate roof, copper gutters, ground floor for retail establishments, floors above for apartments, studios and offices; also storage garage, Mexican restaurant, etc.; Albaugh & Steinhomer, Archts., Real Estate Bldg.; Lilly-Drought, Engrs., 603 Frost Natl. Bank Bldg.; owner builds.

Railway Stations, Sheds, Etc.

Ga., Savannah—Seaboard Air Line Rwy., W. D. Faucette, Ch. Engr., let contract to C. V. York Co., Raleigh, N. C., for \$200,000, 1-story and basement, 241x45 ft., struct. steel frame, brick freight depot on W. Broad St.; conc. and wood floors; 290x45 ft. shed. 10-11

Schools

Ala., Auburn—Delta Sigma Phi Fraternity, Alabama Polytechnic Institute, let contract to C. A. Fulghum, Thiesen Bldg., Pensacola, Fla., for \$30,000 frat house, and work will soon start; Phi Delta Theta also soon start work on \$30,000 home; Phi Kappa Delta, A. T. O. and Pi K. A. fraternities planning homes. 7-5

La., Duson—Lafayette Parish School Bd., J. W. Faulk, Supt., Lafayette, let contract at \$16,489 to J. B. Mouton, Lafayette, for repairs to 1-story frame school and erecting 1-story frame and stucco school, alterations and addition to principal's residence; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 10-4

La., Milton—Lafayette Parish School Bd., J. W. Faulk, Supt., Lafayette, let contract at \$34,890 to E. E. Rabalais, Bunkie, for 2-story, rein. conc., brick, stucco trim elementary and high school; also let contract at \$48,298 to Mr. Rabalais for rein. conc. and brick school at Scott; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 10-4

La., New Orleans—Following additional sub-contracts awarded on Dixon Hall at H. Sophie Newcomb College for which R. P. Farnsworth & Co., Maritime Bldg., have general contract at \$213,814: Limestone, Indiana Limestone Co., Hibernia Bank Bldg.; ornamental and misc. iron, Jas. R. Sutton, 4724 Banks St.; painting, Gus Peterson, 730 Valence St.; plastering, E. Chronister, 5020 Annunciation St.; ventilating and sprinkler system, Robinson Bros., Pine Bluff, Ark.; tile roofing, Horace White, Southern Bldg.; Emile Well, Archt., Whitney Bank Bldg. 10-25

La., Ridge—Lafayette Parish School Bd., J. W. Faulk, Supt., Lafayette, let contract at \$60,735 to P. Olivier & Son, Lake Charles, for 2-story, rein. conc., brick, stucco trim elementary and high school at Judice-Ridge; tile roof, wood floors; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 10-4

La., Scott—See La., Milton.

La., Youngsville—Lafayette Parish School Bd., J. W. Faulk, Supt., Lafayette, let contract at \$48,715 to L. W. Eaton, Baton Rouge, for rein. conc. and brick elementary and high school; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 10-4

Md., Galena—Kent County Bd. of Education, Louis C. Robinson, Supt., Chestertown, let contract at \$12,000 to Walter T. Pippin, Chestertown, for school to serve as annex to high school. 8-9

Miss., Cleveland—American and Venetian Marble Co., 615 Julia St., New Orleans, has contract for terrazzo work on administration building, dormitory and dining hall at Delta State Teachers College for which Currie & Corley, Raleigh, have general contract at \$234,005; C. H. Lindsley, Archt., Lamar Bldg., Jackson. 10-18

Miss., Oxford—W. P. Dalton, Corinth, has contract for brick work for 7 dormitories at University of Mississippi for which Estes & Reed, Millsaps Bldg., Jackson, have general contract at \$247,000; Frank P. Gates Co., Archt., 507 Edwards Hotel Bldg., Jackson. 10-18

N. C., Charlotte—Bd. of School Commrs., Chas. Blackburn, Sec.-Treas., let contract at \$88,865 to Wesley T. Heath Co., 310 N. Church St., for 18-room and gymnasium addition to Alexander Graham Jr. High School; heating, \$16,595, A. Z. Price Co.; Chas. C. Hook, Archt., Commercial Bk. Bldg. 10-18

N. C., Greensboro—Greensboro School Dist., E. D. Broadhurst, Chmn., let contract to Angle-Blackford Co., American Exchange Bank Bldg., for \$200,000, 3-story and basement, brick, rein. conc., stone trim school on Lincoln St.; terrazzo and tile floors, steam heat; plans by Associated Architects, 928 Jefferson St. 10-25

Okla., Mangum—Union Grade School Dist. No. 4 let contract at \$14,795 to F. H. Daggs, Hollis, for 1-story brick school; The Butler Company, Archts., Herskowitz Bldg., Oklahoma City.

Okla., Mangum—Bd. of Education, L. N. Tuttle, Clk., let contract at \$41,000 to Sampson Construction Co., Lubbock, Tex., for brick and rein. conc. gymnasium and auditorium; The Butler Co., Archt., Herskowitz Bldg., Oklahoma City. 10-25

Okla., Shawnee—Bd. of Education, George Hunter, Clk., let contract at \$9800 to Golden Troop for 1-story, brick, con. and frame

gymnasium; A. C. Davis & Son, Archts. 10-25

Tenn., Kingsport—Bd. of Education let contract at \$32,250 to V. L. Nicholson Co., 102 W. Clinch St., Knoxville, for 2-story, brick, 8-classroom and auditorium school; Allen N. Dryden, Archt., 209 Broad St. 10-25

Tex., Houston—American and Venetian Marble Co., 3203 Polk St., has contract for terrazzo work on \$266,000, 24-room, James Deady Jr. High School for which Northern Construction Co., Union Natl. Bank Bldg., has general contract. 6-28

Va., Williamsburg—College of William and Mary, Dr. J. A. C. Chandler, Pres., let contract to Farmville Manufacturing Co., Farmville, for alterations and additions to Library Building; Charles M. Robinson, Archt., 1002 Times-Dispatch Bldg. 9-27

Stores

Ark., Arkadelphia—C. C. Tobey and Dougald McMillan, 910-14 Main St., started work on 2-story, 50x90 ft., brick building to be leased to L. C. Newberry Furniture Co.; comp. roof, conc. and wood floors; C. G. Gregory, Contr. 10-25

Ark., Little Rock—F. & I. Goldberg, 121 Main St., and W. A. Marx, 620 Main St., let contract to Geo. H. Burden Co., Moore & Turner Bldg., for \$35,000, 2-story and basement, 50x120 ft., brick store, 211 Main St.; comp. roof, wood and conc. floors; Thompson, Sanders & Ginocchio, Archts., Hall Bldg. 10-25

Fla., Greenville—B. W. Brinson soon start work on store building; E. A. Snipes, Contr. 10-25

Fla., Milton—William Ates soon start work on 24x60-ft. brick building on Willing St.; H. L. Nelson, Contr. 10-25

Fla., Tampa—Dupree, Inc., soon start work on 1-story, 80x138-ft. brick, conc. and steel, 6-store bldg., 109 S. Franklin St.; F. J. Kennard, Archt., 303 Zack St.; G. A. Hanson, Contr. 10-18

Ga., Atlanta—Massell Realty Co., 61 Poplar St., N. E., erect 1-story and basement, brick store and warehouse, Highland Ave. near Jackson St., to be occupied by National Linen Service Co.; tar and gravel roof; E. C. Seiz, Archt., 15 Poplar St.; owner builds. 10-25

Ga., Atlanta—Ladson Estate let contract to H. W. Oliver, both 701 Silvey Bldg., for \$18,000, 1-story and basement brick store, 1707-15 Peachtree St., N. E.; tar and gravel roof, plate glass front. 10-25

Ga., Atlanta—A. A. McCord, 1420 McLendon Ave., erect \$15,000, 1-story and basement, 50x80 ft., cinder block and brick store, 1165-71 McLendon Ave.; tar and gravel roof; owner builds. 10-25

Md., Baltimore—Isaac Berman, 803 Brooks Lane, erecting \$12,000, 2-story, 24x100 ft., brick building 636 W. Baltimore St.; fixtures, equipment, \$12,000; Toren Building Co., Inc., Contr.; David Harrison, Archt., 1322 N. Central Ave. 10-25

Mo., St. Louis—N. Pellgreen, 816 Pine St., has permit for \$175,000, 4-story, 45x211-ft. brick store and office building, 6101-5 Easton St. and 1505-21 Hodiamont St.; asphalt roof; Pellgreen Construction Co., 816 Pine St. 10-25

N. C., Wilmington—Wilmington Development Co., David White, 233 S. Elm St., and L. M. Ham, 205 Wainman St., Greensboro, let contract to U. A. Underwood & Co., for \$50,000, 66x165 ft., 2-story and basement, brick and struct. steel frame store on N. Front St., between Grace and Walnut Sts., to be occupied by Sears-Roebuck & Co., R. E. Wood, Chicago; Lorenzo S. Winslow, Archt., 910 American Bank Bldg., Greensboro; also considering erecting four 1-story stores on north side of Grace St., between Front and Second Sts. 9-8

Mo., St. Louis—Arnold R. Licklider Realty and Construction Co., 5405 Easton Ave., erect \$65,000, 2-story and basement, 41x115 ft., brick store and apartment in Bel Nor; comp. roof, hardwood floors, steam heat; Stanley Knorth, Archt., 315 Glendale road. 10-25

N. C., Charlotte—J. H. Cutter, 338½ N. Tryon St., let contract to J. P. Little & Sons, Builders Bldg., for \$100,000, 2-story and basement, 63x128 ft., 3-story building, E. 5th and N. Tryon Sts.; heating, Charles W. Christian, 937 Providence Rd.; electric, Woodside Electric Co., 37 E. 4th St.; W. L. Stoddart, Archt., 50 E. 41st St., New York. 8-30

Okla., Oklahoma City—G. A. Nichols, Inc., 115 N. Harvey St., and J. J. Culbertson, Jr., erect four 90x70 ft. stores on west side and 100-ft. group of buildings for 3 stores and filling station on east side of \$100,000 theater under construction at 13th St. and Stone-wall Ave.; tile walls, clay tile copings and roofs, stucco finish. 10-25

Tex., Big Springs—H. Clay Read let contract at \$41,203 to Suggs & Dunlap, Abilene, for 2-story, 50x140-ft. brick, tile and rein. conc., stone trim store and apartment; David

S. Castle Co., Archt., 701-4 Alexander Bldg., Abilene. 10-25

Tex., Dumas—McDade Implement Co. started work on 48x40 ft., tile and stucco, Spanish type show room and storage room. 10-25

Tex., Houston—Dunn Estate let contract at \$12,767 to Frank Heidelberg, 3317 San Jacinto St., to remodel 2-story building, Preston and San Jacinto Sts.; Einar H. Stube, Archt. 10-25

Tex., Houston—Jesse H. Jones, Pres., Austin & Rusk Realty Co., Bankers Mortgage Bldg., let contract to Southwestern Construction Co., West Bldg., for \$1,000,000, 7-story, 129x153 ft., struct. steel and rein. conc. fireproof building, Main and Walker Sts.; portion of first and entire second, third and fourth floors leased to Levy Brothers Dry Goods Co., 309 Main St.; excavation and foundation work completed; foundation for 13 additional stories; Petroleum Iron Works, has contract for erection of steel; Joseph Finger, Archt., Keystone Bldg. 9-20

Tex., San Antonio—Lawrence & McFarland, care Adams & Adams, Archts., Real Estate Bldg., let contract at \$23,908 to W. C. Thrallkill, Real Estate Bldg., for 1-story, 109x125-ft. brick and rein. conc. store, Fredericksburg road and W. Russell St. 11-1

Tex., Stratford—J. S. Francis, Dalhart, has contract to erect 60x140 ft. store for W. T. Martin Hardware Co., and 30x90 ft. store E. W. Butler General Merchandise Co.; brick. 10-25

Tex., Victoria—Frank Alonso started work on 32x80 ft. store on E. Juan Linn St., to be occupied by M-System Grocery No. 2; Ed. Wagner, Contr.; K. J. Lefland, Archt. 10-25

Theaters

Miss., Blue Mountain—W. L. Robertson soon start work on 1-story, 30x70 ft., brick Blue Mountain Theater; asphalt built-up roof; E. L. Godwin, Contr. See Want Section—Building Material and Equipment. 11-1

Warehouses

Okla., Oklahoma City—Sherman Machine & Iron Works, N. S. Sherman, Jr., Treas., 18 E. Main St., soon start work, by day labor, on \$30,000, 1-story, brick and rein. conc. warehouse. 10-25

Tenn., Maryville—Huffstetler & Co. erecting addition to warehouse. 10-25

Book Review

The New Map of South America, by Herbert Adams Gibbons. New York City: The Century Company. Cloth. Pp. 400. \$3.

No more important point for study in these times can be suggested than the great continent of South America and, to judge from this book, no authority is better equipped to handle the subject than is Dr. Gibbons. The book not only is informative and educational, but also it is written in engaging fashion, virtually without dates and statistics, but in almost narrative manner. After three visits to Brazil, the writer of this review often has sought, in vain, for an adequate description of the marvels of that amazing country; in 42 pages in this book he finds the subject finely covered. The aim of Dr. Gibbons is to show the place occupied by each of the South American countries in contemporary history, and to this end he first tells something about the natural resources and history of the continent in general, after which the reader is in a position to judge the relation of the individual countries to the whole. The book is not a historical work, but a visualization of South America of today, geographically and politically. In compact form, enough is given about all the countries of the continent to enable the reader to gather an intelligent appreciation of the South American attitude toward the rest of the world and the influence of South American countries in international affairs. Chapters on "The Monroe Doctrine" and "Pan Americanism" are of supplementary interest and importance. After a presentation of the background of the South American Republics, each country is taken up individually, together with "The Question of the Pacific" and "Islands Under European Control." Half a dozen maps are also presented.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Boiler Works Machinery.—Twin City Boiler Works, Inc., Bristol, Va.—Wants prices and information on used angle bending rolls, 4 in. x 4 in. x $\frac{3}{4}$ in. capacity; good used friction saw and angle shear or combination shear and punch and other good structural and plate working equipment; must be in good condition.

Hoist.—J. W. Marshall, West Point, Va.—Wants small double drum hoist with which to make electric hoisting rig, either new or second-hand.

Locomotive Crane.—Superior Pine Products Co., Fargo, Ga.—Wants steam or gasoline locomotive crane on 8 wheel standard gauge trucks 50 foot full circle log loader boom, with twin drums; American preferred.

Log Mill.—Lincoln Denton, Marrowbone, Ky.—Wants prices and data on good used Trevor short log mill.

Trailer.—Kathleen Campbell, 505 W. Cumberland Ave., Knoxville, Tenn.—Wants 6-wheel, heavy duty trailer, capacity from 35 to 50 tons.

Well Drilling Machinery and Gasoline Engine.—Geo. W. Bollinger, M. E., Martel, Tenn.—Wants data and prices on well drilling machinery, both gas and steam; also small gasoline engines, 2 to 5 h. p.

Bass-Horless Lumber Co., Inc., Morgan City, La.—Wants prices and data on following:

- (1) Engine—steam, 50 hp.
- (2) Hog—small
- (3) Pipe—steam
- (4) Trimmer—2 saw.

Dixie Stage Lines, Inc., Fred B. Candle, Anniston, Ala.—Wants prices and data on following:

- (1) Woodworking Machine
- (2) Bus Body Hardware
- (3) Bus Washing Machine
- (4) Welding Outfit.

O. T. Hennessee, Contr., 683 Juniper St., Atlanta, Ga. wants prices and data on following:

- (1) Floor Finishing Machine—electric sanding and polishing machine for hardwood floors
- (2) Saw—portable, electric cut off.

Miscellaneous.

Breakfast Food Cartons.—Herndon Milling Co., W. M. McNair, Pres., Herndon, Va.—Wants prices and data on cartons for breakfast foods.

Mirrors.—Mrs. C. R. Meares, Box 22, Clarkston, N. C.—Wants prices and data from manufacturers of mirrors.

Porch Screen.—Taylor-Second Construction Co., Inc., Beymer Bldg., Winter Haven, Fla.—Wants prices and data from firms handling porch shade or screen made of slats to be used inside of screened porch to keep out rain.

J. Floyd Miller, R 1, Lake Charles, La.—Has patented nutcracker with capacity of cracking 1 lb. of seedling pecans in 2½ minutes, and wants firms to manufacture and sell on royalty basis.

Henry G. Carter, 101 E. Lafayette St., Tampa, Fla.—Wants to represent manufacturers of hardware lines, plumbing supplies, building supplies and power plant equipment and supplies, Florida territory.

Building Material and Equipment.

Harrison Construction Co., Contr., Box 1993, Buena Vista St., Miami, Fla. wants prices on following for buildings for Miami Beach Amusement Co.:

- Flooring—tile
- Roofing—built-up
- Steel Sash and Trim
- Tile—hollow.

Gordon Walker, Contr., 1014 Rector Bldg., Little Rock, Ark. wants prices on following for \$100,000 office building:

- Cast Stone
- Electric Refrigerators
- Elevators

Flooring—terrazzo, tile

Limestone

Mail Chutes

Marble

Metal Doors

Roofing (flat)—built-up

Steel Sash and Trim

Tile—gypsum, hollow

Terra Cotta Trim

Brass and Bronze Work.

Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio, Tex. wants prices on following for \$10,000 city hall, Uvalde, Tex.:

- Cast Stone
- Limestone
- Metal Ceilings
- Roofing—tile.

Kiehnel & Elliott, Archts., Seybold Bldg., Miami, Fla. want prices on following for \$35,000 dwelling, Daytona Beach, Fla.:

- Cast Stone
- Electric Refrigerators
- Flooring—hardwood, terrazzo, tile
- Roofing (hip)—tile
- Tile.

Tisdale, Stone & Pinson, Archts., 1103 Goodhue Bldg., Beaumont, Tex. want prices on following for \$450,000 Goodhue Hotel, Port Arthur, Tex.:

- Dumb Walters
- Electric Refrigerators
- Elevators
- Flooring—terrazzo
- Marble
- Metal Doors
- Roofing—built-up, tile
- Steel Sash and Trim
- Terra Cotta Trim
- Ventilators.

Joseph F. Dixon, Dixon & Kellogg, Main St., Natchez, Miss. wants prices on following for \$20,000 store:

- Elevators
- Flooring—hardwood
- Gas Radiators
- Metal Ceilings
- Metal Doors
- Plaster Board
- Roofing (flat)—tile
- Sprinklers
- Steel Columns and Girders
- Steel Sash and Trim
- Ventilators

W. L. Robertson, Blue Mountain, Miss. wants prices on following for theater:

- Mail Chutes
- Metal Ceilings
- Metal Doors
- Roofing—built-up
- Steel Sash and Trim
- Ventilators
- Wire Glass.

Robert L. Harris, 3432 University Place, Baltimore, Md. wants prices on following for \$35,000 school, Mechanicsville, Md.:

- Limestone
- Marble
- Metal Ceilings
- Metal Doors
- Roofing (hip)—slate
- Steel Sash and Trim
- Tile—gypsum, hollow, interior
- Ventilators
- Wire Glass
- Brass and Bronze Work.

Green & Brown, Contrs., 252 Peachtree Arcade, Atlanta wants prices on following for \$12,500 apartment for George H. Miller:

- Flooring—hardwood, linoleum, terrazzo, tile
- Metal Ceilings
- Metal Doors
- Plaster Board
- Roofing—asbestos shingle, asphalt shingle, slate, tile
- Steel Sash and Trim
- Tile—gypsum, hollow, interior
- Terra Cotta Trim
- Wire Glass
- Brass and Bronze Work

L. M. Steele, 360 Eastwood St., Marshall, Mo. wants prices on following for \$20,000 apartment:

- Electric Refrigerators
- Electric Stoves.

Charles D. Sagar, 924 14th St., N. W., Washington, D. C. wants prices on following for \$250,000, 5-story apartment:

- Cast Stone
- Electric Refrigerators
- Elevators
- Flooring—tile, oak, composition
- Incinerator
- Limestone
- Mail Chutes
- Marble
- Plaster Board
- Roofing—tile
- Steel Sash and Trim
- Tile—Gypsum, hollow.

O. T. Hennessee, Contr., 683 Juniper St., Atlanta, Ga. wants prices on hardwood flooring for apartments.

B. H. Sprankle, 426 Union Ave., Knoxville, Tenn.—Wants prices and data on electric passenger elevator for 6-story building having run of 85 ft.

Southeastern Construction Co., Contr., 210 W. Second St., Charlotte, N. C. wants prices on tile flooring for \$100,000 dormitory for Asheville Farm School, Asheville.

Bids Asked

Antifriction Metal Ingots.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Nov. 13 for 250 lb. antifriction metal ingots, for delivery to Quantico, Va.

Batteries.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids Nov. 12 for 100 storage batteries.

Bridges.—State of Alabama—Bids for 8 bridges and 5 culverts. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Ellicott City, Md. See Construction News—Bridges, Culverts, Viaducts.

Castings.—See Water Works Materials.

Chairs.—Dist. Commrs., Washington, D. C.—Bids Nov. 14 for lecture room and tablet arm chairs for use in Shaw Junior High School

Copper Wire.—John R. Renken, Pur. Agt., Charleston, S. C.—Bids Nov. 15 for 10 ml. triple braid, weatherproof, hard drawn No. 10 copper wire; about 280 lb. per mile.

Cresosoted Lumber, etc.—Acadia Parish Police Jury, J. E. Daigle, Sec., Crowley, La. Bids Nov. 13 for 51,000 BM.ft. creosoted lumber and pilings, delivered at Egan; 10-lb. treatment.

Dam and Appurtenances.—Water Dept., 617 Washington Ave., Waco, Tex.—Bids Nov. 22 for constructing earth dam and appurtenant structures on Bosque River; work includes, 230,000 cu. yds. excavation; 558,000 cu. yds. embankment in main dam; 23,000 cu. yds. conc. in spillway and structures; 1,540,000 lbs. rein. steel; 16 steel crest gates on spillway, 15x25 ft.; Floyd & Lochridge, Ch. Engrs., 531 Wilson Bldg., Dallas, Tex., and Southern Union Life Bldg., Waco.

Electric Drills.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids Nov. 19 for 12 portable electric drills.

Electric Refrigerators.—Q. M. Supply Officer, 20th and C Sts., Washington, D. C.—Bids Nov. 20 for large quantity of electric refrigerators.

Jute.—See Water Works Materials.

Lead.—See Water Works Materials.

Miscellaneous Supplies.—A. L. Flint, Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Nov. 27 for following; Sch. 1918:

Motor Generator set and control switchboard, copper rail conduction, iron, steel, brass pipe, blow torches, manila rope, bond paper, grindstones, zinc, sheet lead, etc.

Pipe (Cast Iron).—See Water Works.

Pipe (Cast Iron).—See Water Works Materials.

Printing Press.—Director of Purchase and Sales, Dept. of Agriculture, Washington, D. C.—Bids Nov. 18 for printing press.

Pump, Compressor.—Supt. of Sequoyah O. T. School, Tahlequah, Okla.—Bids Nov. 12 for duplex power pump, capacity 100 gal. water per minute and 2-stage air compressor.

Reinforcing Steel.—See Dam and Appurtenances.

Reservoir.—See Water Works.

Reservoir.—See Water and Sewer.

Road.—Gadsden, Ala. See Construction News—Roads, Streets, Paving.

Road.—Edinburg, Tex. See Construction News—Roads, Streets, Paving.

Road.—Gloucester, Va. See Construction News—Roads, Streets, Paving.

Road.—Miami, Fla. See Construction News—Roads, Streets, Paving.

Road.—Benjamin, Tex. See Construction News—Roads, Streets, Paving.

Road.—Madisonville, Tex. See Construction News—Roads, Streets, Paving.

Road.—Anderson, Tex. See Construction News—Roads, Streets, Paving.

Roads.—Fort Worth, Tex.—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—Newkirk, Okla.—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Sussex, Va. See Construction News—Roads, Streets, Paving.

Road.—Bay Minette, Ala. See Construction News—Roads, Streets, Paving.

Roads.—Benton, La.—Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas—Bids for 7 roads. See Construction News—Roads, Streets, Paving.

Roof Coating.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Nov. 12 for furnishing 550 gal. of roof coating, for delivery to Quantico, Va.

School Equipment.—Dist. Commrs., Washington, D. C.—Bids Nov. 15 for wood shop, metal shop and foundry equipment in McKinley High School.

Sewage Disposal Plant.—See Water and Sewer.

Sewers.—City of Houston, Tex.—Bids Nov. 14 for sanitary sewers on Beverly St. and storm sewers on Live Oak, Euclid Ave., etc.

Sewers.—Ed. of Commrs., Mobile, Ala.—Bids Dec. 11 for storm sewers, separate proposals on Div. 1, 2, 3 and 4, including pipe, conc. culverts, manholes, special basins, inlets; Wright Smith, City Engr.

Street.—Aiken, S. C. See Construction News—Roads, Streets, Paving.

Street.—Montgomery, Ala. See Construction News—Roads, Streets, Paving.

Street.—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Street.—Mobile, Ala. See Construction News—Roads, Streets, Paving.

Street.—Muskogee, Okla. See Construction News—Roads, Streets, Paving.

Street.—Macon, Miss. See Construction News—Roads, Streets, Paving.

Tank and Tower.—See Water Works.

Tank and Tower.—See Water Works Materials.

Trench Digging Machine.—Metropolitan Contracting Co., 220 S. Highland Ave., Baltimore, Md.—Wants trench digging machine.

Water Softening Plant.—See Water and Sewer.

Water and Sewer Systems.—Hico, Tex., J. R. McMillon, Sec.—Bids Nov. 26 for extension to water works and sewerage system, including construction of 100,000 gal. conc. surface storage reservoir, water softening plant and sewage disposal plant; specifications, etc., from Harry Gowins, Jr., 1203 Allen Bldg., Dallas.

Water Works.—Water Improvement Dist. No. 2, W. A. Fish, Chmn. of Committee, Star City, Ark.—Bids about Dec. 1 for \$35,000 extension water works system; 12,500 ft. of 2-in. treated c.l. pipe, 3500 ft. of 4-in. and 5000 ft. of 6-in. c.l. pipe, 20 fire hydrants, air and gate valves; install 10 hp. electric motor used with centrifugal pump, 10 hp. Deisel engine pumping into 50,000 gal. steel tank on 100 ft. tower and conc. lined storage reservoir of 150,000 gal. capacity; R. R. Parker, Engr., Box 126.

Water Works Materials.—City of River Junction, Fla., B. F. Barnes, Mayor—Bids Nov. 19th for furnishing following materials: 25,000 ft. of 6-in. and 8-in. c. l. pipe and 10 tons special castings; 6000 ft. c. l. or gal. iron 2-in. pipe; 60 fire hydrants; twenty-five 6-in. and 8-in. valves; ten 2-in. valves; 17,000 lbs. lead and 500 lbs. jute; elevated steel tank, erect of 75,000 gal., 100,000 gal., 150,000 gal. or 200,000 gal., above for distribution system of water works system and pipes and valves must conform with American Water Works specifications; H. S. Jaudon Engineering Co., Engrs., Leesburg.

Merchandising Counsel Firm.

Colonel Ernest McCullough has resigned as editor and Edward S. Hanson as managing editor of Building Age and National Builder. They are associated as merchandising counsel, specializing on advertising problems in the engineering, architectural and construction fields, with offices in the Salmon Tower, New York City.

Fort Lauderdale, Fla., on the Map.

Attractions of Fort Lauderdale, Fla., are set forth in a folder, "The Tropical Wonderland," issued at the advent of the winter season. Fort Lauderdale, it is stated, with all its conveniences and facilities, is more than a mere tourist resort, and, removed from the residential sections, "the wheels of commerce and the hum of industry" are heard. Fort Lauderdale also has a fine harbor.

Southern Railway Dairying Publication.

In a special National Dairy Show number the Southern Railway System devotes an issue of its publication, "The Southern Field," to topics appropriate to that general subject. Emphasis is laid on dairying as "a great Southern opportunity" and "a valuable pasture grass" is described. Also other branches of agriculture are interestingly covered and the number is well illustrated.

Joins Oliver Iron and Steel.

The Oliver Iron and Steel Corporation, Pittsburgh, Pa., has announced the appointment of John N. Critchlow as general manager of sales. For several years Mr. Critchlow was district sales manager for the Pittsburgh Crucible Steel Company, later operating as a manufacturer's agent and handling the products in the Detroit district for such companies as the Oliver Iron and Steel Corporation and the Atlas Drop Forge Company.

Style in Industry.

"The Use of Style and Design in Industry" is the title of an interesting booklet issued by the policyholders service bureau of the Metropolitan Life Insurance Company, home office in New York City. Manufacturers in diversified lines emphatically recognize the new importance of style and design, it is said. The discussion includes "Controlling Style and Design Elements," "Establishing the Relationship Between Staple and Styled Merchandise" and other appropriate and interesting subjects.

Trade Literature

Drainage.—Various types of drainage are set forth in pamphlets issued by the Armco Culvert Manufacturers Association, Middletown, Ohio, some of these being "Subdrainage a Solution of Many Maintenance Problems," "Increasing the Efficiency of Roadbed Drainage," "Modern Drainage Gets Real Test," and so on. Diagrams and illustrations add to the value of the pamphlets.

Dyes.—Reprinted by permission from Good Housekeeping, a booklet based on an article, "Colors That Are Fast Are What Women Are Asking for Today," has been issued by the dyestuffs department of E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. "Sound business practice dictates the increasing manufacture and sale of fabrics that are fast," is the concluding sentence in the booklet.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Large Clay Pipe Shipment for South Carolina Cotton Mill.

The Grier-Lowrance Construction Co., Statesville, N. C., engaged in constructing a large addition to the Chesnee (S. C.) Mills, are using clay pipe and wall coping manufactured by the Lee Clay Products Co., Clearfield, Ky., and it is said that in a recent shipment of four carloads the only breakage was one piece of 24-inch pipe. Additional pipe and fittings manufactured by the Lee company were hauled from the stock of its Spartanburg dealer, Montgomery & Crawford Co. The construction superintendent on the mill job declares the pipe very satisfactory from the standpoint of strength, workmanship and appearance.

Opportunities in Arkansas.

In a series of pamphlets giving a statement of its financial condition, the American Southern Trust Company, Little Rock, Ark., sets forth various natural and industrial features and opportunities of that State, as, for instance, a paper mill center, a peach growing area, a good roads State, a bauxite field and a dairy section. The trust company has capital of \$1,000,000; surplus, \$220,000; undivided profits and reserves, \$159,370, and deposits, \$16,360,868.

A New Day in Mississippi.

"The Dawn of a New Day" is the title of a pamphlet issued by the Mississippi State Department of Agriculture and Commerce, J. C. Holton, commissioner, Jackson, the dawn "not being based on an oil boom, not founded on the discovery of gold, nor stimulated by some spectacular announcement," but being "the simple realization of the fine possibilities that everywhere abound in Mississippi." In summary it cites, among other things: Abundance of low priced land, ample supply of economical power, long growing seasons that favor a variety of crops, intelligent labor and raw materials that await development.

Copper and Brass Officers.

At its eighth annual meeting the Copper & Brass Research Association, New York City, re-elected R. L. Agassiz, chairman of the Calumet & Hecla Consolidated Copper Company as president. Vice-presidents chosen were: Walter Douglas, president, Phelps-Dodge Corporation; Thomas D'A. Brophy, Anaconda Copper Mining Co.; F. S. Chase, president, Chase Brass & Copper Co., Inc.; Barton Haselton, president and general manager, Rome Brass & Copper Co.; also treasurer, Stephen Birch; manager, William A. Willis, and John F. Gowen, secretary.

Bridges.—Highway and railroad bridges form the title and subject of a copyright brochure issued by the McClintic-Marshall Company, Pittsburgh, Pa., engineers, manufacturers and erectors of steel bridges and buildings, with annual capacity of 450,000 tons. In the booklet the company shows some of the more important bridges it has built or is building and also illustrates in a measure the scope of its production and the facilities at its command. The illustrations are most informative.

Charleston As Textile Port.

Advantages of Charleston, S. C., as a textile port in the great Southeast are presented in a folder issued by the Port Utilities Commission of that city, which invites correspondence from interested parties, including manufacturers, sales agencies and financiers. Transportation facilities, rail and water, form the principal feature of this folder, which also mentions the city's waterfront properties, its railroad belt line and terminals.

Motors.—The Wagner Electric Corporation, St. Louis, Mo., has issued a new bulletin, No. 157, describing Wagner large RA single phase repulsion-induction motors. The bulletin is full of illustrations and detailed description of every part of the motor. Not only is the motor dissected to make clear to motor users what each part is for, and why it is made that way, but it is also a text book on single phase motors in general.

Filters, etc.—Interesting pamphlets issued by the Bousman Manufacturing Company, Grand Rapids, Mich., include: "The Reclamation of Gasoline and Similar Hydrocarbons," bulletin No. 301; "Oils and Their Filtration," No. 101; "The Jumbo Drain Truck," No. D. T. 3; "Type S-f Continuous Oil Filter," No. 101 C, and "Vacuum Solvent Stills," No. 301-D. Illustrations and diagrams feature the issues.

Identification.—Under the title, "Half the Business Battle," the Kaumagraph Company, New York City, has issued a booklet explaining its "complete identification service." Kaumagraphs, it is said, have been found to be the ideal method for trademarking linoleum, buffing wheels, air pillows, typewriter covers and tennis balls, and other articles are cited to show the wide adaptability of the Kaumagraph process.

Steel Buildings.—With the phrase, "Lowest Cost Per Year," a copyright brochure, bulletin 1057, has been issued by the Blaw-Knox Company, Pittsburgh, Pa., describing the Blaw-Knox Standard one and two story steel buildings. On receipt of an order the company sends the customer complete foundation plans, accompanied by an express shipment of anchor bolts for the footings. This is followed by a shipment of "everything above the foundation—frame, walls, sash, doors, roof, skylights, ventilators or monitors and hardware." Diagrams and specifications are found in the book, and the back cover page tells of other Blaw-Knox products.

Structural Steel.—Views of buildings constructed of steel fabricated by J. S. Schofield's Sons Company, Macon, Ga., are presented in letters recently sent out, showing a view of Greater Wesleyan College; engine terminal of the Southern Railway; the Carling Tile Company, and the clay storage house of the Cherokee Brick Company, all of Macon. The Schofield's Sons Company now is preparing to handle structural steel buildings on a larger scale, in addition to its business on steel barges, dredge pipe, boilers and engines, incinerators, water tanks, acid tanks, steel plate work and special engineering work made to design.

Valves.—Information on Nordstrom valves is given in catalog No. 6 of the Merco Nordstrom Valve Company, subsidiary of the Merrill Company, engineers, New York, New Orleans, Houston, Dallas and other cities. Among the products covered are adapters, cast iron gear housing, cast steel and Jewell steel valves, Knight-Nordstrom valves (acid proof ceramic ware), mercoloy valves, Merco bronze valves, parts and accessories, straightway valves, and so on. Views of valves in service are given, with conversion tables, tables of parts and other information.

Crushers.—Two bulletins, No. 2003 and No. 2004, issued by the Pennsylvania Crusher Company, Philadelphia, Pa.; Birmingham, Ala., and other cities, describe Pennsylvania Steel-built crushers as of single roll type, developed in two roll diameters and three lengths, making a total of six sizes for the series. The Pennsteel series is employed for primary crushing where stone is handled by small shovels or handloaded for second and third reductions, following larger crushers.

St. Louis Up to Date.

Features of wide range relating to all phases of industry and life in and around St. Louis, Mo., are pictured by word and illustration in "St. Louis As It Is Today," an attractive booklet published by the Industrial Club and St. Louis Chamber of Commerce. The immediate urban population is given as 875,000. A "huge improvement program of a city-wide nature, covered by an \$87,000,000 bond issue, to cover a period of 10 years, comprises traffic betterments, city beautification, commercial development and increase of municipal facilities," says the booklet.

How We Got Our Liberties. By Lucius B. Swift. Indianapolis, Ind.: Bobbs Merrill Company. \$2.50.

In his preface the author says: "I have followed a plan that would have filled a gap in my own education. That gap, perhaps less wide, remains in American education today." So his book has a definite mission and is designed to fill what he considers a definite need. It starts with the most fundamental of American institutions, the early origin of representation—from which has come American representative form of government—in the township meeting, or moot, in which every freeman had a vote. "We are now in the presence of representative government which the Anglo-Saxons brought with them from over the North Sea, and which the historian Freeman says, 'is the great political invention of Teutonic Europe,'" says Mr. Swift. Out of centuries of struggle developed the representative form of government as our ancestors knew it, but during that formative period it was not known as representative government, but was a struggle of a deeply-rooted instinct in the Saxon race for a voice in the government, even though that voice was heard in but limited affairs. The interesting point is that, while the peoples of all other races were alike suffering the oppressions of tyrannical governments, it remained for the progenitors of this nation—our British ancestors—to give evidence of that powerful inner urge for freedom and talent for co-operation in the regulation of their affairs that became manifest in a growing use of the principle of representation until this country developed it to the high stage it reached about three or four decades ago. The book is written in a pleasing style and is an interesting contribution to the subject.

Airplane Pilots in the South.

Six hundred and fifty-two airplane pilots in the Southern States are named in a directory of licensed pilots for the entire country, issued by the aeronautics branch of the Department of Commerce as Aeronautics bulletin No. 20. No attempt has been made to list holders of student-pilot permits, but the directory indicates the classification of each pilot as transport pilot, limited commercial, industrial or private. The law covering the licensing of pilots explains that:

"It shall be unlawful * * * to serve as an airman in connection with any aircraft registered as an aircraft of the United States * * * without an airman certificate or in violation of the terms of any such certificate.

"The term 'airman' means any individual (including the person in command and any pilot, mechanic or member of the crew) who engages in the navigation of aircraft while under way, and any individual who is in charge of the inspection, overhauling or repairing of aircraft."

The licensed pilots in the Southern States are given by name, numerically as follows: Alabama, 26; Arkansas, 32; Florida, 56; Georgia, 24; Kentucky, 18; Louisiana, 19; Mary-

land, 31; Mississippi, 10; Missouri, 107; North Carolina, 14; Oklahoma, 51; South Carolina, 4; Tennessee, 38; Texas, 109; Virginia, 108; West Virginia, 5.

Supplements to the directory will be issued every six months.

\$2,000,000 Improvements for New Orleans Utilities.

New Orleans, La.—Plans are being made by the Public Service, Inc., of this city, to issue \$2,000,000 of new stock to make extensive additions and improvements to its gas, electric and street railway systems here. Improvements contemplated include the completion of a high pressure gas distribution system to make natural gas available to industries, at a cost of \$900,000; reconstruction of the St. Charles-Tulane Belt Line and paving Baronne street, \$400,000; improvements in electrical department, \$600,000, and the purchase of seven additional passenger buses, \$80,000.

\$9,000,000 WEST VIRGINIA POWER PROJECTS PLANNED.

Chemical Company Proposes Construction As Initial Step in Development of Big Plants.

Charleston, W. Va.—The Public Service Commission of West Virginia approves the construction of two power dams at Hawk's Nest on New River, by the New-Kanawha Power Company and will authorize the construction as soon as a detailed agreement has been worked out between the company and state officials. The projects are part of a plan to utilize the water power of the Kanawha River and its tributaries in the production of chemicals for the Union Carbide & Carbon Co., New York, of which the New-Kanawha Power Co. is a subsidiary. It is estimated that the initial expenditure will be about \$7,000,000 and the ultimate expenditure \$9,000,000.

The development of this project is said to be a step in the direction of establishing a new manufacturing center in the vicinity of Glen Ferris, W. Va., at the mouth of the Gauley River. Land rights for the construction of one group of plants at Boncar, which will rival in size the United States Ordnance plant at South Charleston, are said to have been acquired by the company already. According to Louis N. Davis, executive vice-president of the Union Carbide & Carbon Co., and an official of several subsidiaries, plans for the development of the power project were formulated about 18 months ago. It is planned to build big manufacturing plants to utilize the power developed.

New Orleans as an Airplane Base.

New Orleans, November 3—[Special.]—Transfer of the winter base for the airplanes of the United States Coast Guard is now being considered in official circles, and New Orleans has been described as a possible location for the squadrons, because of its geographical location and because its weather conditions are favorable to air transportation. These squadrons spot rum runners, locate ships in distress, derelicts and other menaces to navigation and also reveal the location of shoals of fish to commercial industry. The planes are equipped with wireless and keep in constant touch with their base.

The Navy Department is considering a recommendation of the Association of Commerce that this city be selected as a base for one of the new dirigibles which will be added to the United States fleet. Proximity of New Orleans to the helium supply, favorable atmospheric conditions and a winter refuge immune from snow and sleet are listed among the factors favoring this city.

Developing Regional Park System for District of Columbia, Maryland and Virginia.

The development of a regional system of parks, on which the National Capital Park and Planning Commission, Washington, D. C., has been working for some time, will involve park facilities not only in the District of Columbia, but in adjacent areas in Maryland and Virginia, according to Carey H. Brown, engineer of the Commission. Of five major projects for parks serving the region, it is planned to extend Rock Creek and Anacostia parks into Maryland, the latter to be known as the Anacostia-Indian Creek Park, and develop the Northwest Branch Valley Park as an arm of it. The Lower Potomac and Great Falls parks will lie partly in Maryland and partly in Virginia and will be, to a large extent, direct extensions of the District of Columbia park system.

Improvements on a portion of these parks are now in progress, notably the drainage and reclamation of the Anacostia area north of Benning bridge, but those portions out-

side of the District are only in the project stage. Definite plans, however, are being made by the Maryland authorities for the early extension of the Rock Creek and Anacostia projects. The Bureau of Public Roads, Department of Agriculture, has received an initial appropriation for work on the Mount Vernon boulevard, the exact route of which has not yet been fixed, but this boulevard, it is thought, will be a governing consideration as to the exact character of the Lower Potomac park project on the Virginia side of the river.

Consolidating the Dairy Industry.

An adequate reserve fund to meet unforeseen contingencies in the dairy industry is an important requisite of dairy co-operative marketing organizations, Chris L. Christensen of the Department of Agriculture told members of the New England Milk Producers Association in annual meeting at Boston, Mass. The remarkable growth and development of the fluid milk marketing associations in the last 10 years, he said, has produced many large-scale co-operative marketing organizations, comparable in size and business activities to great private business corporations. Mergers in the dairy field have been especially noticeable in the past year or two. On January 1, 1928, there were listed with the division of co-operative marketing, 2479 dairy associations with 600,000 members, with business in 1927 of \$620,000,000 and handling approximately one-third of the creamery butter and cheese manufactured in the United States and one-fifth of the fluid milk used for household purposes.

Bids on \$300,000 Auditorium for Columbia, S. C.

Columbia, S. C.—Bids will be opened December 1 by the City Auditorium Commission, Judge M. S. Whaley, chairman, for erecting a \$300,000 auditorium at Hampton and Henderson streets. The structure will be 223 by 127 feet, three stories and basement, of steel frame, reinforced concrete foundations and floor construction, cast stone trim, hollow tile backing, gypsum block partitions, terrazzo, wood and concrete floors, tar and gravel roof. It will be equipped with a steam heating plant and ventilating system. The auditorium will seat 4000. Lafaye & Lafaye, Columbia, are the architects.

To Study Farm Situation.

George H. Payne of Omaha, Neb., will be chairman of the special committee of the National Association of Real Estate Boards, appointed by President Henry G. Zander to make a study of general conditions surrounding the industry of agriculture. The study looks to a better understanding of the factors involved in farm prosperity. It is to be made in recognition of the relationship between such prosperity and general business prosperity and to aid in clearing the way for a normal farm land situation.

Builders Supply Changes Convention Date.

The National Builders Supply Association, with headquarters at Cleveland, Ohio, announces that the date for its convention has been changed to December 3, 4 and 5, at the Hotel Peabody, Memphis, Tenn. This change was made to avoid conflict with the convention date of the American Face Brick Association, which will meet on December 6, 7 and 8.

The current issue of the Norfolk and Western Magazine states that labor, water and shale surveys, covering the entire territory served by the Norfolk and Western Railway, are now being made by the railroad's Agricultural and Industrial Department. The resulting data will be presented to industries which contemplate locating in the territory served by the Norfolk and Western.

TRADE "LEADITE" MARK

Registered U. S. Pat. Office

Laid 10 miles of water main—and satisfactory in every particular!

—said a waterworks engineer of national reputation, referring to this installation

Here is the story:—

THE Second Taxing District, South Norwalk, Connecticut, U.S.A., has just completed the installation of approximately ten miles of cast iron bell and spigot water mains, varying in size from 6" to 18". The work included the placing of about fifty cutting-in-tees on existing piping and their connection to new work.

Leadite was selected for jointing material after receiving competitive bids for laying with lead.

The total amount of the successful bids for all work, excepting the furnishing of the cast iron pipe, specials and valves, was as follows:

Lead Joints	\$155,631
LEADITE Joints	142,535
Difference	\$ 13,096
Saving in favor of LEADITE ..	8.4%

The work was performed by contractors experienced in the use of this material and was satisfactory in every particular.

Specifications required that after laying, the pipe should be tested for leakage under water pressures varying from 40 pounds to 115 pounds per square inch, and that the leakage should not exceed two gallons per 24 hours per linear foot of joint. The results of the tests were well within this limit.

This work was under the direction and supervision of Mr. Nicholas S. Hill, Jr., Consulting Engineer, 112 East 19th Street, New York, N.Y., U. S. A.

Leadite is used extensively by thousands of water works engineers, superintendents and contractors with excellent results.

Specify
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Trade Practices, Advertising and Muscle Shoals to Be Principal Topics at Southern Fertilizer Meeting.

A look ahead into business conditions that are likely to prevail next year in the South, especially for those who do business principally with the farmers, will be taken by at least 300 executives of the fertilizer industry during the fourth annual southern convention of the National Fertilizer association in Atlanta November 13 and 14. In addition to a survey of future prospects, the convention will consider trade practices, advertising, state regulations and Muscle Shoals.

The opening session will be devoted to "Industry Improvement Through Constructive Change"; E. L. Robins, Meridian, Miss., president of the association, will give the address on "Code Observance and Better Business." M. Markham Flannery, Washington, D. C., chief of trade practice conferences of the Federal Trade Commission, will discuss "Trade Practice Procedure," a subject interesting to leaders of every industry and which represents a radical departure from past governmental policy with respect to unsound trade practices. Harry D. Wilson, commissioner of agriculture of Louisiana, will speak on "The Commissioner of Agriculture and the Fertilizer Industry." "The Economic Outlook" will be presented by the economist of the association, W. Arthur Shelton, Washington, D. C.

The afternoon session of the first day will be devoted to "Promoting Industry Welfare Through Advertising," with John J. Watson, president, International Agricultural Corporation, New York, presiding. Why European farmers are using greater quantities of chemical plant food per acre than American farmers will be discussed by J. C. Pridmore, director of the southern division of the Soil Improvement Committee, Atlanta, who, with H. R. Smalley, Washington, D. C., director of the northern division, intensively studied European agriculture during the summer. "Co-operative Market Development and Industry Protection" will be presented by Major I. D. Carson of N. W. Ayer & Son, advertising agency of Philadelphia. "Making Individual Company Advertising Work for the Common Good" is the subject of an address to be given by L. W. Rowell, vice-president of the association, and general manager of the fertilizer department of Swift & Co., Chicago. Harry C. Butcher, Washington, D. C., managing editor of "The Fertilizer Review," published by the association, will present the results of a special survey of the advertising activities of the fertilizer industry, which will show for the first time how the industry apportions its

advertising with farm papers, city papers, trade journals and for direct-by-mail campaigns.

"Muscle Shoals and the Fertilizer Industry" is the general subject for the concluding session; Charles H. MacDowell, president of Armour Fertilizer Works, Chicago, and chairman of the association's Public Relations committee. Horace Bowker, vice-president, American Agricultural Chemical Co., New York, will review "Past and Pending Legislative Proposals Regarding Muscle Shoals." "Agriculture's Position on Muscle Shoals" will be outlined by Chester H. Gray, Washington representative of the American Farm Bureau Federation, and "Government Relations to Our Industry" will be presented by Charles J. Brand. This will be followed with an open forum and by presentation of resolutions.

Automatic Signals for 271 Miles of Railroad.

St. Louis, Mo.—Automatic block signals on 271 miles of railroad line have been authorized by the Missouri Pacific Railroad Company, according to L. W. Baldwin, president. This protection will cost about \$1,000,000 and will cover the main track from Kansas City to Atchison, Kan., 45 miles; from Osawatomie to Coffeyville, through Durand, Kan., 135 miles; Illinois division, 45 miles, and from Urania to Alexandria, La., 46 miles. With the completion of this installation, a total of 1507 miles of line will be protected.

The Texas & Pacific Railway Co. is completing the installation of an automatic signal system from Livonia to New Orleans and Texarkana, through Marshall and Longview Junction to Dallas and Fort Worth and on the west to a point within a few miles of El Paso, while the International-Great Northern Railroad Co. is completing an installation from Longview Junction, Tex., to Palestine, Tex., and the Gulf Coast Lines from De Quincey to Kinder, La.

To Discuss Fireproof Material.

Discussions of fireproof material will be a feature at the annual convention of the steel fabricators of the United States and Canada, which has been called by the American Institute of Steel Construction to meet at Biloxi, Miss., November 13 to 17, inclusive. Steel, it is stated, is practically the only material which has been subjected to thorough tests for its power to resist fires. E. W. Krueger of Milwaukee will offer the report of the committee appointed to study fireproofing as related to structural steel. Clinton T. Bissell of the National Board of Fire Underwriters also will speak.

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GWYNN CROWTHER, President

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FINANCIAL NEWS

Bond Issues Proposed

Ala., Mobile—City voted \$600,000 bonds: \$400,000, water; \$200,000, auditorium. 10-18

Ark., Little Rock—Road—State, Ralph Koonce, Treas., considering issuing \$5,000,000 short term notes, to be sold in \$1,000,000 lots at various times during next 2 or 3 months; receives bids Nov. 20.

Ark., Rogers—City Hall, Fire Dept., etc.—City, A. E. Owens, Recorder, votes Nov. 20 on \$45,500 bonds.

Fla., Daytona Beach—Bd. of Bond Trustees Ocean Shore Blvd. Improvement Dist., W. H. Courtney, Sec., Daytona Beach, plans issuing refunding bonds to defer payment of principal and interest in amount of \$75,000.

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., plans \$2,100,000 bond election: \$1,500,000, sewer extension; \$300,000, paving; \$300,000, street widening; W. E. Sheddan, City Engr.

Ga., Atlanta—Hospital—City, I. N. Ragdale, Mayor, plans voting Dec. 5 on \$1,000,000 bonds.

Ky., Hopkinsville—Funding—Christian County Commrs. receive bids Nov. 9 for \$40,000 4½% bonds.

La., Colfax—Gas—City defeated \$42,000 bonds. 10-11

La., Many—Sewerage—City voted \$50,000 bonds.

La., Opelousas—St. Landry Parish School Bd., W. B. Prescott, Supt., receives bids Nov. 28 for \$40,000 5¼% \$1000 School Dist. No. 2A bonds.

La., Tallulah—Road—Madison Parish Police Jury considering \$400,000 bond issue.

Md., Cumberland—School—Allegany County Commrs., Thomas P. Richards, Clk., receive bids Nov. 20 for \$250,000 4¼% \$100, \$500 and \$1000 denom. bonds.

Miss., Carthage—Water, Sewer—City voted \$65,000 bonds; Massena L. Culley, Consit. Engr., Jackson. 10-4

Miss., Forest—Town votes soon on \$60,000 bonds for water works, water mains extension, city hall.

Miss., Macon—Road—Noxubee County Dist. No. 5 voted \$75,000 bonds.

Miss., Woodville—Gas—City votes Nov. 13 on \$22,000 bonds.

Mo., Golden City—City votes Nov. 20 on \$100,000 bonds: \$70,000, water; \$30,000, sewer.

Mo., Mansfield—Water—City votes Nov. 19 on \$10,000 bonds.

Mo., St. Joseph—A. L. Loving, Sec. and Bus. Mgr., Saint Joseph School Dist., receives bids Feb. 1, 1929, for \$250,000 4% bonds.

Okla., Hollis—Road—Harmon County Commrs. considering \$325,000 bond election; Marlow Dill, County Clk.

Okla., Muskogee—Road—Muskogee County, W. H. Pritchell, County Clk., considering selling \$1,500,000 bonds. 8-18

Tenn., Shelbyville—Street—City voted \$50,000 bonds.

Tex., Abilene—Road—Taylor County, Tom K. Eplen, Judge, voted \$750,000 bonds.

Tex., Anson—Road—Jones County voted \$750,000 bonds.

Tex., Brady—School—City voted \$135,000 bonds; W. I. Brogden, Sec., School Bd. 10-18

Tex., Beaumont—City, Ed W. Gross, Mayor, rejected bids for \$150,000 bonds. 10-18

Tex., Clarendon—Road—Donley County votes Nov. 21 on \$1,000,000 bonds.

Tex., Corpus Christi—Paving—City votes Nov. 10 on \$200,000 bonds.

Tex., Corpus Christi—Road—Neuces County, Port Aransas Road Dist. No. 11, votes Nov. 10 on \$200,000 bonds; Nat Benton, County Judge.

Tex., Floydada—Road—Floyd County votes Dec. 1 on \$400,000 bonds.

Tex., Galveston—Galveston County, E. B. Holman, Judge, votes Nov. 30 on \$800,000 bonds: \$700,000, road; \$100,000, courthouse and jail.

Tex., Harlandale, San Antonio—Harlandale Independent School Dist. votes Nov. 17 on \$200,000 bonds; M. L. Rees, Pres., School Bd., 410 Pacific Ave., San Antonio.

Tex., Orange—McLewis School Dist. No. 15, Orange County, voted \$12,000 bonds.

Tex., San Antonio—Municipal Improvement—City, C. M. Chambers, Mayor, receives bids Nov. 16 for \$4,755,000 bonds. 11-1

Tex., San Marcos—Water Works—City Comm., E. E. Barnes, Sec., receives bids Nov. 20 for \$150,000 5% \$1,000 denom. bonds. 7-5

Tex., Winters—Water—City votes Nov. 20 on \$72,000 bonds.

Va., Richmond—School—Finance Committee of City Council considering \$850,000 bond issue.

Va., Winchester—City Council considering issuing bonds for indebtedness and improvements, including water, sewer extensions, roadways, etc.; Herman H. Hable, Councilman.

Bond Issues Sold

Ark., Keiser—School—J. K. Childs, Sec., Bd. of Education, sold \$75,000 Mississippi County Consolidated School Dist. No. 31 bonds to W. B. Worthen & Co., Little Rock, \$200 premium. 10-18

Ark., Osceola—Bd. of Dir. Osceola Special School Dist., Mississippi County, sold \$129,000 6% bonds to M. W. Elkins & Co., 217 W. Second St., Little Rock, at par. 10-18

Fla., Daytona Beach—Improvement—City, M. S. Couch, Clk., sold \$344,000 6% bonds to Breed, Elliott & Harrison, Cincinnati, Ohio. 10-11

Fla., Starke—Bradford County Commrs. Special Tax School Dist. No. 6 sold \$20,000 5½% bonds to T. H. Emerson, Brooksville, 98. 8-16

Ga., Greenville—Road—Meriwether County sold \$50,000 4¼% \$1000 denom. bonds jointly to J. H. Hillsman & Co., Inc., Atlanta Trust Co. Bldg., and Citizens & Southern Co., Citizens & Southern Bank Bldg., both Atlanta.

La., Harrisonburg—Road—Catahoula Parish Police Jury, J. H. McGee, Sec., sold \$50,000 6% Sub-Road Dist. No. 1 of Road Dist. No. 1 bonds to L. E. French & Co. and W. D. Hill & Co., both Alexandria, \$400 premium. 9-20

La., New Orleans—Bd. of Liquidation, Bernard C. Shields, Sec., sold \$7,000,000 4½% bonds to syndicate composed of Harris, Forbes & Co., National City Co., Roosevelt & Son, Stone & Webster and Blodgett, Inc., Arthur Sinclair, Wallace & Co., L. F. Rothschild & Co., Howe, Snow & Co., Inc., all New York; Wm. R. Compton Co., St. Louis, Mo.; Illinois Merchants Trust Co., Chicago, Ill.; Hibernia Securities Co., Inc., New Orleans, La., 100.839; \$4,000,000, sewer, water, drainage; \$3,000,000, auditorium, criminal courts building, etc. 10-18

Miss., Greenville—Rehabilitation—Washington County Bd. of Supvrs. sold \$455,000 bonds to State of Mississippi at 98 and accrued interest.

Miss., Holly Springs—Drainage—Commrs. of Pigeon Roost Creek Drainage Dist. of Marshall, Tate and De Soto Counties sold \$87,000 6% bonds to A. K. Tigrett & Co., 71 Madison St., Memphis, Tenn. 10-4

Mo., Sedalia—Road—Pettis County Commrs. sold \$99,000 bonds: \$54,000 4¼% Hous-tonia Special Road Dist. No. 6, to Stern Brothers, Kansas City, premium \$351; \$20,000 5% Trickum Special Road Dist., Fidelity National Co., Kansas City, \$140 premium; \$15,000 5% Elder Ridge Special Road Dist. No. 37, Mississippi Valley Trust Co., St. Louis, \$112 premium; \$10,000 5% Green Ridge Special Road Dist. No. 40, Fidelity National Co., Kansas City, \$36 premium.

N. C., Oxford—Improvement—City Commrs., W. P. Stradley, Clk., sold \$45,000 5% \$1000 denom. bonds to Seasingood & Mayer, Ingalls Bldg., Cincinnati, Ohio, par, accrued interest, \$268 premium. 10-25

N. C., Raleigh—School—Wake County sold \$100,000 6% bonds to Detroit Co., Detroit, Mich., \$6 premium.

N. C., Washington—Funding—Beaufort County Commrs., G. Rumley, Clk., sold \$125,000 bonds to Provident Savings Bank & Trust Co., Cincinnati, Ohio, \$1675 premium. 10-18

Okla., Haskell—F. N. Shoemaker, Town Treas., purchased \$10,000 5% coupon motor fire truck apparatus and equipment bonds at par.

Tex., Stamford—Bd. of Education, N. S. Holland, Sec., sold \$65,000 5% \$1000 denom. Stamford School Dist. bonds to Roger H. Evans Co., Dallas, par, accrued interest, \$1209 premium. 10-11

Tex., Uvalde—City sold \$200,000 5% water bonds to Brown-Crummer Co., Wichita, Kan., subject to election to be held Nov. 12. 11-1

Va., Clarendon—Water—Arlington County Bd. of Supvrs., Wm. H. Duncan, Clk., sold \$50,000 4½% \$1000 denom. notes to Braun, Bosworth & Co., Toledo, Ohio, at discount of \$1350. 10-4

Building and Loan Associations

Tex., Fort Worth—American Home Savings and Loan Assn., capital \$20,000, incorporated; Lewis B. Curd, 2010 Hurley Ave.

W. Va., Fairmont—Mountaineer Building and Loan Assn., capital \$100,000, incorporated; Vincenzo Procopio, Antonio Angotti, Joe DePollo.

New Financial Corporations

Fla., Jacksonville—Commercial Finance Co., capital \$30,000, chartered; D. R. Lauderback, 310 E. 7th St.

Fla., Miami—Dade Finance Corp., capital \$10,000, chartered; Dan Chappell, Huntington Bldg.

Ga., Savannah—Dublin Bank & Trust Co. organized; Mills B. Lane, 26 Gaston St., E., Pres. of Citizens & Southern National Bank, will probably be Chmn. of Bd.

La., Lafayette—Lafayette Securities Co., Inc., capital \$100,000, chartered; J. C. Barry, Pres.; F. K. Gauthier, Sec.

Mo., St. Louis—Roseheart Investment Co., capital \$10,000, incorporated; Louis A. Becker, Director, 4235 N. Seventh St.

N. C., Biltmore—Carolina Industrial Bank, Biltmore Industrial Bank Bldg., capital \$25,000, opened; T. C. Cox, Pres.; F. A. Pender, Sec.-Treas.

Tenn., Chattanooga—Hamilton Securities Corp., capital \$500,000, chartered; T. R. Preston, 122 N. Crest Rd.; organized in connection with consolidation of Hamilton National Bank and Hamilton Trust & Savings Bank.

Tex., Houston—Trust Co. of Texas organized; R. S. Sterling, Chmn. Bd. of Dir.; T. J. Betts, Pres.

Tex., Los Fresnos—Los Fresnos State Bank, capital and surplus \$35,000, organized; A. N. Tandy, Pres.; Nolan Taylor, Cashier.

Tex., San Antonio—Great Southern Securities Co., capital \$100,000, chartered; C. F. McKee, Milan Bldg.

Tex., Wellington—First National Bank of Wellington, capital \$25,000, chartered; G. W. Deahl, Pres.; W. Wrey, Cashier.

Va., Alexandria—Prudential Investment Corp. of Alexandria, capital \$50,000, chartered; John P. Quarles, Pres.; Henry P. Thomas, Atty.

Va., Richmond—American Cities Power and Light Corp., capital 5,000,000 shares of Class B stock without par value and \$75,000,000 Class A stock; incorporated; L. E. Kilmarx, Pres., 7306 Ridge Blvd., Brooklyn, N. Y.; deal in power securities.

American Bank & Trust Co., John Legler, Pres., New Orleans, La., plans increasing capital, \$750,000 to \$1,500,000.

Tennessee Building & Loan Assn., B. W. Graves, Pres., 311 Union St., Nashville, Tenn., increased capital, \$2,500,000 to \$5,000,000.

American Exchange National Bank, R. G. Vaughn, Pres., Greensboro, N. C., changed name to American National Bank & Trust Co., capital \$1,000,000, and announces new subsidiary, American National Corp., with \$250,000 capital.

Chain Drives.—New silent chain drives from stock book, published by the Link-Belt Company, Chicago, Ill., for its trade is said to evidence the soundness of an idea advanced by that organization some four years ago when it inaugurated the plan of furnishing silent chain drives from stock. At that time it announced that silent chain drives of ½ to 10 horsepower would be available from stock, as a joint result of standardization and quantity production. According to the latest silent chain publication, book No. 725, it will be possible to obtain drives as high as 60 horsepower, in practically any reduction from 1 to 1 to 7 to 1, for immediate delivery, by distributors in the principal cities of the United States.



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A N A T I O N A L O R G A N I Z A T I O N



BOND ISSUES

BUILDINGS

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GOOD ROADS



PROPOSALS

Bids close November 27, 1928.

SEALED BIDS, in triplicate, subject to the conditions contained herein, will be received by the U. S. Veterans' Bureau, Room 764 Arlington Building, Washington, D. C., until 11 A. M. November 27, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing an Acute Building, Officers' Duplex Quarters and Utilities Building, including roads, walks and drainage at U. S. Veterans' Hospital, Bedford, Massachusetts. This work will include excavating, reinforced concrete construction, hollow tile, brick work, cast stone, marble work, floor and wall tile, iron work, steel sash, steel stairs, with slate treads; slate, metal and built-up roofing, roof ventilators, metal lathing, plastering, carpentry, metal weather strips, insect screens, painting, glazing, hardware, plumbing, heating, electrical work, electric elevator and outside sewer, water, steam and electric distribution system. **SEPARATE BIDS** will be received for Electric Elevator, all as set forth on bid form. Bids will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and in making awards the records of bidders for expedition and satisfactory performance on contracts of similar character and magnitude will be carefully considered. At the discretion of the Director, drawings and specifications may be obtained upon application to the Construction Division, Room 764 Arlington Building, Washington, D. C. Deposit with application of a check or postal money order for \$50, payable to the **TREASURER OF THE UNITED STATES**, is required as security for safe return of the drawings and specifications within ten days after date of opening bids. **FRANK T. HINES**, Director. October 25, 1928.

Bids close November 20, 1928.

\$250,000 4 1/4 % School Bonds

Cumberland, Md.

Sealed bids will be received by the County Commissioners of Allegany County, Maryland, at their office in the Courthouse, Cumberland, Maryland, until 11 A. M. November 20, 1928, for an issue of Allegany County Bonds, known as "ALLEGANY COUNTY SCHOOL BOND ISSUE OF 1928," amounting to Two Hundred and Fifty Thousand (\$250,000) Dollars.

Bids may be for all or part of the issue. Certified check for 5% of the amount bid must be deposited with any bid for said bonds as security for compliance with bid.

The bonds are authorized by Chapter 298 of the Acts of the General Assembly of Maryland of 1927, and bear interest at the rate of 4 1/4 per cent per annum, and will be issued in denominations of \$100, \$500 or \$1000 each, purchaser to decide, and payable Twenty-five Thousand (\$25,000) Dollars on the first day of July, 1946, and a like amount of Twenty-five Thousand (\$25,000) Dollars on the first day of July in each and every year thereafter until all of said bonds of said issue have been redeemed.

Interest payable semi-annually, represented by interest coupons attached to said bonds. Bonds are exempt from municipal and county taxation in Allegany County, Maryland. **FINANCIAL STATEMENT OF ALLEGANY COUNTY**

Assessable basis\$86,744,032.47

Bonded indebtedness (not including this issue); no floating debt 2,114,000.00

Address all bids to the County Commissioners of Allegany County, Cumberland, Md., care of Thomas P. Richards, Clerk. The County Commissioners reserve the right to reject any and all bids.

By order of the Board of County Commissioners of Allegany County, Maryland.

HENRY A. BACHMAN,
President.
THOMAS P. RICHARDS,
Clerk.

GENERAL INFORMATION

About Proposal Advertising in Manufacturers Record

PUBLICATION DAY: Thursday.

FORMS CLOSE: 10 A. M. Tuesday.

When too late to send copy by regular mail to reach us by 10 A. M. Tuesday, forward by night letter or air mail when possible.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD:

Published every business day gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened or when daily insertions are necessary to meet legal requirements.

The rate is the same for both publications—35 cents a line each insertion.

Bids close November 19, 1928.

\$4,755,000 4 1/2 % Bonds

San Antonio, Texas.

SEALED PROPOSALS, addressed to the undersigned, will be received at this office until 10 o'clock A. M. on

NOVEMBER 19, 1928,

at which place and time they will be opened, for the purchase of \$4,755,000 Public Improvement bonds, or one or more series thereof, issued by the City of San Antonio, Texas, dated August 1, 1928, bearing 4 1/2 per cent interest, payable semi-annually, and maturing serially, in annual installments as nearly equal as practicable, in from one to forty years, viz:

1. Sewerage Disposal	\$1,250,000
2. Street Widening and Opening	600,000
3. Street Paving and Grading	750,000
4. River Improvements	500,000
5. Constructing Bridges	150,000
6. Police and Fire Department Buildings	300,000
7. Public Parks	400,000
8. Public Library	500,000
9. Exposition Grounds Park	250,000
10. Governor's Palace Park	55,000

All proposals must be on blanks furnished by the undersigned, and accompanied by Bank Cashier's check in at least the sum of one per cent of par value of bonds bid on, payable unconditionally to C. M. Chambers, Mayor, guaranteeing completion of proposal, if accepted.

Proposals must be either

1st. For entire issue, to be taken and paid for immediately; or—and

2nd. For entire issue, to be taken and paid for in such amounts and at such times as the City Commissioners may determine, on thirty days' notice; or—and

3rd. For one or more separate issues to be taken and paid for immediately; or—and

4th. For one or more separate issues to be taken and paid for, in such amounts and at such times as the City Commissioners may determine, on thirty days' notice.

Bonds to be delivered and paid for at the City Treasury in San Antonio, Texas.

The City reserves the right to reject any and all bids.

Further information may be obtained on application from the undersigned.

FRED FRIES, City Clerk,
San Antonio, Texas.

Bids close November 12, 1928.

War Department, U. S. Engineer Office, Wilmington, N. C. Sealed bids, in duplicate, will be received until 12 o'clock noon November 12, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for constructing, testing and delivering two steel barges. Further information on application.

Bids close November 21, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 17, 1928.—**SEALED BIDS** will be opened in this office at 3 P. M. November 21, 1928, for construction of the U. S. Post Office at Conway, Ark. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect, by any satisfactory general contractor, and provided a deposit is made of \$15 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. **JAS. A. WETMORE**, Acting Supervising Architect.

Bids close November 13, 1928.

\$7,500,000 Road and Bridge Bonds

Montgomery, Ala.

Public Road, Highway and Bridge Series "I" Bonds, under and by virtue of the Act of the Legislature of Alabama approved January 4, 1927 (Acts Special Session, 1926-1927), and of the Amendment (Article XXA) of the Constitution of Alabama (Acts Special Session, 1926-1927), which authorizes the issuance and sale of Public Road, Highway and Bridge Bonds, sealed bids will be received by the Bond Commission of the State of Alabama at the office of the Governor in the State Capitol at Montgomery UNTIL 12 O'CLOCK NOON TUESDAY,

NOVEMBER 13, 1928,

for \$7,500,000 State of Alabama, Series "I," Public Road, Highway and Bridge bonds.

Said bonds will be dated September 1, 1928, and mature: \$500,000 on March 1, 1932; \$500,000 on March 1, 1934; \$600,000 on March 1, 1938; \$600,000 on March 1, 1940; \$700,000 on March 1, 1943; \$800,000 on March 1, 1945; \$100,000 on March 1, 1949; \$900,000 on March 1, 1951; \$1,000,000 on March 1, 1953; \$900,000 on March 1, 1957; \$900,000 on March 1, 1959, and shall bear interest not to exceed 4 1/2 per cent annually. Said interest shall be paid semi-annually on the first day of March and September of each year from the date of issue to maturity. Both principal and interest are payable at the office of the State's Fiscal Agent in New York. Bonds will be issued in denominations of \$1000 and will be in coupon form, but may be registered as to principal and interest at the office of the State Treasurer upon payment of the customary fee.

After written bids have been examined, at the time above stated, the bonds may be sold on open competitive bids, at the discretion of the Bond Commission. The Commission is composed of the Governor as ex-officio Chairman, the Attorney General and the Alabama Highway Director.

Bidders must furnish a certified check, payable to the order of the Treasurer of the State of Alabama, in the amount of two (2%) per cent of the par value of the bonds bid for, and this amount is to be forfeited to the State by the successful bidder should he fail to carry out the provisions of his bid. All written bids to be addressed to Bibb Graves, Governor, Chairman Bond Commission, State Capitol, Montgomery, Ala., and marked "Bids for Public Road, Highway and Bridge Bonds." The right is reserved to reject any and all bids. The legality of bonds will be approved by Messrs. Storey, Thorndike, Palmer & Dodge, whose opinion will be furnished the purchaser. Temporary receipt or certificate may be issued pending preparation of bonds, to be redeemed upon their delivery. These bonds are forever exempt from all taxes. For further information address

BIBB GRAVES,
Governor of Alabama.

Bids close December 1, 1928.

Viaduct

Jacksonville, Fla.

Bids will be received until noon December 1, 1928, at the office of the President-General Manager of the Jacksonville Terminal Company at Jacksonville, Florida, for the construction of a viaduct crossing railroad tracks of that company on Beaver Street, Jacksonville, Florida. All details and information may be obtained by inquiry to the undersigned.

J. L. WILKES, President,
Jacksonville Terminal Company.

Bids close November 13, 1928.

Reinforced Concrete Bridge

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building a bridge as follows:

Howard County, Cont. Ho-60—One single span reinforced concrete arch bridge, 22-ft. 0-in. clear span, over Deep Run on the Baltimore-Washington Boulevard near Waterloo, in Howard County.

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 13th day of November, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 1st day of November, 1928.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close December 4, 1928.

Paving and Sewerage

Aiken, S. C.

Sealed proposals will be received by the Commission of the City of Aiken, at the office of the City Clerk, up until 10.30 A. M. Eastern Standard time, December 4, 1928, for the construction of approximately one and one-half miles of trunk storm sewer and one and one-half miles of sanitary and storm sewer laterals; three miles of street paving; and two miles of sanitary sewer outfall; together with various features incident thereto. Cash funds to the amount of \$225,000 are available for the foregoing purposes. Bids will be received covering the three projects both separately and combined. Bids must be made on standard form of Proposal.

Proposal shall be accompanied and guaranteed by an acceptable certified check payable to the City of Aiken in amount depending upon the projects bid upon; \$6,000 for trunk storm sewer and sewer laterals, \$4,500 for street paving, \$1,000 for sanitary sewer outfall, respectively.

On and after November 10th, the plans, specifications, form of contract and bond, and proposal blanks will be on file at the office of the City Clerk, Aiken, S. C. Copies of plans, specifications and proposal forms may be rented from the Engineer, 313 Herald Building, Augusta, Ga., upon deposit of \$10 for the Sanitary Sewer Outfall and \$20 for each of the other projects. Fifty per cent of the deposit will be refunded upon return of the copies in good condition on or before December 10, 1928.

The right is reserved to reject any and all bids and to waive any informality.

FRANK P. HENDERSON, Mayor
and Chairman of Commission.

Associate Engineers:

HARRY SUDLOW,

Aiken, South Carolina.

ELROY G. SMITH,

313 Herald Bldg., Augusta, Ga.

Bids close December 11, 1928.

Storm Sewers and Paving

Mobile, Ala.

Sealed bids will be received by the Board of Commissioners, City of Mobile, Alabama, until noon Tuesday, December 11, 1928, for the following:

STORM SEWERS

Separate bids on each division for furnishing and installing.

DIVISION 1:

6 inch Pipe	5,650 Ft.
10 inch Pipe	3,320 Ft.
12 inch Pipe	4,715 Ft.
15 inch Pipe	2,180 Ft.
18 inch Pipe	1,600 Ft.
24 inch Pipe	1,020 Ft.
3 feet x 6 feet Concrete Culvert ..	250 Ft.
3.5 feet x 6 feet Concrete Culvert ..	895 Ft.
4.0 feet x 6 feet Concrete Culvert ..	50 Ft.
Manholes	35
Inlets	139
Special Basins	14

DIVISION 2:

6 inch Pipe	20,350 Ft.
10 inch Pipe	18,250 Ft.
12 inch Pipe	13,805 Ft.
15 inch Pipe	12,655 Ft.
18 inch Pipe	6,745 Ft.
21 inch Pipe	2,200 Ft.
24 inch Pipe	4,015 Ft.
27 inch Pipe	880 Ft.
30 inch Pipe	2,010 Ft.
2 feet x 4 feet Concrete Culvert ..	960 Ft.
2 feet x 5 feet Concrete Culvert ..	2,180 Ft.
2.5 feet x 6 feet Concrete Culvert ..	1,200 Ft.
3 feet x 6 feet Concrete Culvert ..	430 Ft.
3.5 feet x 5 feet Concrete Culvert ..	510 Ft.
3.5 feet x 6 feet Concrete Culvert ..	750 Ft.
Manholes	132
Inlets	599
Special Basins	188

DIVISION 3:

6 inch Pipe	16,860 Ft.
10 inch Pipe	15,850 Ft.
12 inch Pipe	13,760 Ft.
15 inch Pipe	4,300 Ft.
18 inch Pipe	4,720 Ft.
21 inch Pipe	800 Ft.
24 inch Pipe	2,835 Ft.
27 inch Pipe	800 Ft.
30 inch Pipe	400 Ft.
2.5 feet x 4 feet Concrete Culvert ..	400 Ft.
3 feet x 3 feet Concrete Culvert ..	1,600 Ft.
3.5 feet x 4 feet Concrete Culvert ..	400 Ft.
3 feet x 5 feet Concrete Culvert ..	709 Ft.
3 feet x 6 feet Concrete Culvert ..	1,120 Ft.
Manholes	92
Inlets	451
Special Basins	19

DIVISION 4:

6 inch Pipe	15,150 Ft.
10 inch Pipe	8,730 Ft.
12 inch Pipe	8,980 Ft.
15 inch Pipe	6,470 Ft.
18 inch Pipe	7,600 Ft.
21 inch Pipe	1,420 Ft.
24 inch Pipe	5,520 Ft.
30 inch Pipe	670 Ft.
36 inch Pipe	920 Ft.
2 feet x 4 feet Concrete Culvert ..	1,640 Ft.
2.5 feet x 4 feet Concrete Culvert ..	1,020 Ft.
3 feet x 4 feet Concrete Culvert ..	610 Ft.
3 feet x 5 feet Concrete Culvert ..	1,920 Ft.
4 feet x 5 feet Concrete Culvert ..	60 Ft.
4 feet x 6 feet Concrete Culvert ..	100 Ft.
6 inch Culvert Top, 7 feet Span ..	1,800 Ft.
8 inch Culvert Top, 7.33 feet Span ..	60 Ft.
Manholes	109
Inlets	380
Special Basins	170

PAVING**6 INCH ONE COURSE CONCRETE****PAVING:**

Paving	165,690 Sq. Yds.
Concrete Curbing	108,255 Lin. Ft.
Excavation	46,191 Cu. Yds.

VITRIFIED BRICK PAVING:

Paving, including 5 inch Concrete Base	15,400 Sq. Yds.
Concrete Gutters and Driveways	1,510 Sq. Yds.
Concrete Curbing	9,480 Lin. Ft.
Excavation	4,549 Cu. Yds.
Alabama Rock, 2 inch top; Kentucky Rock, 1½ inch top; Sheet Asphalt, 1½ inch top, 1½ inch binder; Warrentite Bitulithic, 2 inch top (in competition)	
Paving, including 5 inch Concrete Base	219,130 Sq. Yds.
Concrete Curbing	133,380 Lin. Ft.
Concrete Gutters and Driveways	28,880 Sq. Yds.

Excavation	61,919 Cu. Yds.
Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
Royal St., St. Louis to Beaugard, and Joachim St., Church to St. Louis Top Surface, 1½ inches	14,444 Sq. Yds.
Black Base	835 Tons

Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
Beaugard St., Royal to St. Joseph 2 inch Top Surface, except Kentucky Rock 1½ inch Surface	2,950 Sq. Yds.

Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
Michigan Ave., Government to Illinois 2 inch Top Surface, except Kentucky Rock, 1½ inch	17,250 Sq. Yds.
5 inch Concrete Base	1,150 Sq. Yds.
Black Base	2,160 Tons

Widening and Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
Government St., Broad to Ann 2 inch Top Surface, except Kentucky Rock, 1½ inch	28,100 Sq. Yds.
5 inch Concrete Base	5,300 Sq. Yds.

Concrete Gutters and Driveways	1,370 Sq. Yds.
Concrete Curbing	8,360 Lin. Ft.
Black Base	750 Tons
Catch Basins Reset	30
New Catch Basins	20

Widening and Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
Government St., Ann to Weinacker 2 inch Top Surface, except Kentucky Rock, 1½ inch	32,540 Sq. Yds.
5 inch Concrete Base	3,909 Sq. Yds.

Concrete Gutters and Driveways	1,436 Sq. Yds.
Resetting Granite Curbing ..	4,000 Lin. Ft.
Concrete Curbing	5,600 Lin. Ft.
Black Base	3,000 Tons
Catch Basins Reset	40
New Catch Basins	20

Widening and Resurfacing with Alabama Rock, 2 inch top; Kentucky Rock, 1½ inch top; Sheet Asphalt, 1½ inch top, 1½ inch binder, or Warrentite Bitulithic, 2 inch top (in competition)	
Springhill Ave., Dauphin to Bayou Top Surface	6,113 Sq. Yds.
5 inch Concrete Base	813 Sq. Yds.

Concrete Gutters and Driveways	300 Sq. Yds.
Concrete Curbing	1,820 Lin. Ft.
Black Base	662 Tons
Resetting Catch Basins	7
New Catch Basins	5

Widening and Resurfacing with Alabama Rock, 2 inch top; Kentucky Rock, 1½ inch top; Sheet Asphalt, 1½ inch top, 1½ inch binder, or Warrentite Bitulithic, 2 inch top (in competition)	
Springhill Ave., Bayou to Ann Top Surface	26,000 Sq. Yds.
5 inch Concrete Base	25,000 Sq. Yds.

Concrete Gutters and Driveways	1,500 Sq. Yds.
Concrete Curbing	560 Lin. Ft.
Black Base	100 Tons
Resetting Catch Basins	10
New Catch Basins	50

Widening and Resurfacing with Alabama Rock, Kentucky Rock, Sheet Asphalt or Warrentite Bitulithic (in competition)	
St. Emanuel St., Government to Church 2 inch Top Surface, except Kentucky Rock, 1½ inch	1,600 Sq. Yds.
5 inch Concrete Base	350 Sq. Yds.

Concrete Gutters and Driveways	250 Sq. Yds.
Resetting Granite Curbing ..	720 Lin. Ft.
Concrete Curbing	100 Lin. Ft.
Black Base	150 Tons
Catch Basins Reset	2
New Catch Basins	2

Plans, Profiles and Specifications are on file in the office of the CITY ENGINEER and can be seen on application.

The right is reserved to reject any or all bids.

CECIL F. BATES,
Mayor.

WRIGHT SMITH,
City Engineer.

S. H. HENDRIX,
City Clerk.

Bids close November 19, 1928.

Notice to Manufacturers of and Dealers in Cast Iron Pipe, Galvanized Iron Pipe, Fire Hydrants, Valves and Elevated Steel Tanks

River Junction, Fla.

Sealed proposals on blank forms furnished by the town, addressed to the "MAYOR AND COUNCIL, RIVER JUNCTION, FLORIDA," will be received at the Town Hall in River Junction, Florida, until 7:00 o'clock, P. M., Central Standard Time, November 19th, 1928, for furnishing the following material, f. o. b. cars River Junction, Florida:

Approximately 25,000 lin. ft. 6 in. and 8 in. cast iron pipe and 10 tons special castings; 6000 lin. ft. cast iron or gal. iron 2 in. pipe; 60 fire hydrants; 25-6 in. and 8 in. valves; 10-2 in. valves; 17,000 pounds lead and 500 pounds jute; one elevated steel tank, erected, of capacity of 75,000 gal. 100,000 gal., 150,000 gal. or 200,000 gal.

The above material is for the distribution system of a water works system and the pipe and valves must comply with the current specifications of the American Water Works Association. Specifications for the elevated steel tank are on file with the Town Clerk and will be furnished bidders by the Engineers upon payment of five

dollars to partly cover cost of reproduction. Blank forms for proposal will be furnished upon application to the Engineers.

The right is reserved to reject any or all bids and to waive technicalities.

TOWN OF RIVER JUNCTION, FLORIDA.

B. F. BARNES, Mayor.

B. T. HUNT, Clerk.

H. S. JAUDON ENGINEERING COMPANY, Engineers, Leesburg, Florida.

Bids close November 19, 1928.

Street Improvements

Holly Springs, Miss.

Notice is hereby given that sealed proposals will be received by the Mayor and Board of Aldermen of Holly Springs, Mississippi, until 10 o'clock A. M. on Monday, November 19, 1928, and then publicly opened, for certain street improvements under Improvement Ordinance No. 137, as amended, Supplemental Improvement Ordinance No. 137 and Improvement Ordinance No. 138. The principal items of work are as follows:

5,300 Cu. Yds. Earth Excavation.
10,400 Sq. Yds. Concrete Street Paving.
5,650 Lin. Ft. Combined Curb and Gutter.

Necessary drains and incidentals.

Specifications and proposal forms can be secured from the undersigned or from the main office of the Consulting Engineers on Deposit of Five Dollars (\$5.00). Plans can

be secured on the payment (not deposit) of Five Dollars (\$5.00). Certified check or bidder's bond for Three Thousand Dollars (\$3000) shall accompany each proposal. The right is reserved to reject any or all bids.

CHAS. N. DEAN, Mayor.

ROBERT L. TOTTEN, INC., Consulting Engineers, Birmingham, Alabama.

Bids close December 6, 1928.

Courthouse Furniture, Etc.

De Land, Fla.

The Board of County Commissioners of Volusia County, Florida, will receive sealed bids at the Clerk's office, DeLand, Florida, until 3 o'clock P. M. December 6, A. D. 1928, for furniture, equipment and floor covering to be installed in Volusia County Courthouse. Plans and specifications of this equipment may be had of W. D. HARPER & COMPANY, Architects, Florence, S. C. Bidders' checks in the amount of 10% of the bid is required of each bidder, the County Commissioners reserving the right to reject any and all bids and readvertise.

DONE this 16th day of October A. D. 1928.

BOARD OF COUNTY COMMISSIONERS, Volusia County, Florida.

W. P. WILKINSON, Chairman.

Attest:

SAM'L D. JORDAN, Clerk.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

KENTUCKY Oil and Gas Leases for sale. Fifty thousand acres in the counties of Floyd, Pike, Magoffin, Morgan, Elliott, Carter and Greenup. A. L. MARTIN, Florentine Hotel, Huntington, W. Va.

LEAD, ZINC AND COPPER properties for sale in Arkansas, Oklahoma and New Mexico, possessing merit. Send for details. ELMER OWENS, Yellville, Arkansas.

WATER POWER SITE
Best in South; 20,000 HP. for manufacture of cotton, cement, metals. Write OWNER, Box 33, West Cunningham, Mass.

COAL LANDS AND MINES
FOR SALE—West Virginia coal mine, 600 acres in fee; capacity 600 tons; six-foot seams; good mining condition. Write P. O. Box 402, Fairmont, West Virginia.

CUT-OVER LAND
FOR SALE—27,000 acres cut-over land; three farms, Rio Grande Valley acreage, lake and summer resort property. Write H. M. FELLESEN, Fond du Lac, Wis.

FARM AND TIMBER LAND
FOR SALE—50,000 acres of good Florida average farming land carrying 100,000,000 feet of timber, large per cent pine. Best bargain; going at \$4.75 in fee. Good merchantable title. G. O. Denham, Bartow, Fla.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

13,000 ACRES, East Coast of Florida, on Indian River, Dixie Highway, F. E. C. Ry. Right in Orange growing belt, where groves sell fast to buyers all over country. Ideal for groves and sub-division. Price \$60.00 per acre. There's money in this tract for a man who knows how to develop.

30,000 ACRES, near Jacksonville, grazing and timber land. Reduced price \$11.00 A. S. P. LAMON, 223 N. E. 1st Street, Miami, Fla.

Rates, Terms and Conditions

RATES: 30 cents a line each insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made.

Rates for Special Contract:
100 lines 25c a line
300 lines 26c a line
500 lines or more 25c a line

TERMS: For transient advertising cash with order; check, postoffice or express money order or stamps accepted. On special contract advertising, bills are rendered monthly covering space used each month, payable within ten days.

CONDITIONS: No patent medicine, oil or mining stock advertisements or questionable or undesirable advertisements will be accepted. The assistance of our readers in excluding undesirable advertisements is requested. No display type used.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

LAKE COUNTY—Beautiful 17 acre grove on large lake. Modern home and modern poultry buildings. All conveniences. Price \$25,000. P. B. RUGGLES, Groveland, Fla.

"TWENTY ACRES AND PLENTY"

FREE book tells truth about Florida land; monthly payments \$1.50 an acre; no interest; no taxes; sick benefit features. SYLVESTER E. WILSON, Department X, Orlando, Fla.

FLORIDA is Calling you; get away from the long, cold Winter—come "where it's Summertime in the Wintertime and Pleasant all the year 'round." We still have some exceptional investment opportunities—especially in groves and Farms. Send for new Fall list. Tampa-West Coast Realty Co., Opp. P. O. "Since Before the War," Tampa, Florida.

FARM, FRUIT AND TRUCK LANDS

MISSISSIPPI

FARMS FOR SALE

Farm No. 1—About 250 acres, 125 acres in cultivation, terraced and practically clear of trees and stumps. Good seven-room dwelling and a five-room tenant house. A large, well-built barn, tool sheds, large engine house, grist mill and gasoline engine, up-ground water supply to the main residence and barn. Running water through the place. Price.....\$25 per acre

Farm No. 2—About 150 acres, about 125 acres in cultivation, all terraced and clear of trees and stumps. Seven-room dwelling house, new and painted. One five-room house, new and painted. One four-room tenant house. Two good, large barns. One dairy barn with concrete floor and is new; will handle about 30 cows. One 2500-bushel dry kiln potato house, built according to Government specifications, new and painted. Engine house and new gasoline engine. Up-ground water supply to the barn and main dwelling. Running water through the place. Price.....\$50 per acre

Farm No. 3—About 125 acres, about 75 acres in cultivation. Terraced and clear of trees and stumps. One new five-room house, painted. Barn and cotton houses. Running water through the place. Price.....\$22.50 per acre

These three farms in one body and connected up, which all together will make about 525 acres. A gravel road passes north and south through the farm and all plans are laid to convert this road into a Government highway right away. This farm is located in Pike County, Mississippi, 10 miles east of the Illinois Central Railroad, three miles from the Louisiana and Mississippi line, six miles from the New Orleans and Great Northern Railroad. This highway will lead you west from the farm 10 miles to Osyka, Miss., 13 miles northwest to Magnolia, Miss., and 20 miles northwest to McComb City, Miss., and 12 miles northeast to Tylertown, Miss., on the N. O. G. N. R. R., going south to Bogalusa, La., and New Orleans. This land is a sandy loam, with a red clay foundation, and drains well. Silver Creek runs through the eastern side of the farm and it is located in a thickly settled community, principally whites. Is right near a Smith-Hughes Consolidated School carrying the twelfth grade. Also is right close to a large Baptist Church and in an extremely healthy locality. If the farm sells all together the price for the entire place will be \$27.50 per acre.

All uncleared land is covered with growth of young timber, pine and hardwood.

A. J. FORTENBERRY, M. D., Canton, Miss.

FARM, FRUIT AND TRUCK LANDS

NORTH CAROLINA

If interested
FOR HOME OR FOR INVESTMENT
In the great and rapidly developing
STATE OF NORTH CAROLINA,
especially in its leading city, Charlotte, or
in a Southern Cotton Mill or Southern Mill
Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

GULF COAST PROPERTY

MISSISSIPPI GULF COAST. 200x400
feet; full riparian rights. Situated in midst
of Edgewater Development Company's hold-
ings about 700 feet west of Two Million
Dollar Edgewater Gulf Hotel. Can be
bought outright or leased for ninety-nine
years. Terms very reasonable. W. E.
Stewart, M. D., 402 Tribune Bldg., Terre
Haute, Ind.

BUSINESS AND INVESTMENT PROPERTIES

HAMPTON ROADS.—Nation's second port
—225 high, desirable lots, 420 feet, fronting
tranquil Willoughby Bay and opposite end
on paved boulevard, furnishing excellent bus
service between Ocean View and Naval Base,
all in city limits of Norfolk. A real bargain
for investment. Priced for immediate sale,
\$27,500. Riley E. Simmons, 533 W. 36th
St., Norfolk, Va.

FOR SALE—Business building in heart
of Quitman, Ga. Two-story, brick with
marble front, intended for use as a bank;
20 ft. by 80 ft.; in center of the most cen-
trally located block on main street. Has
good vault. Quitman is the County Seat
of Brooks County. Population 6,000. Has
two railroads, three banks, and is in the
heart of the richest farming section of
South Georgia. For further information
address

JAMES V. P. OGLESBY,
165 South Milledge Ave., Athens, Ga.

BUSINESS OPPORTUNITIES

WANTED TO CONNECT and join with
us two or three additional parties who wish
to become interested jointly in the organi-
zation of a building and construction com-
pany. Parties experienced in the building
industry desired and willing to invest three
to five thousand dollars; also take active
interest in the management. Splendid re-
turns can be made on your investment. Full
investigation will be allowed to parties who
may mean business. Please do not answer
unless you are really interested. Address
No. 6967, care Manufacturers Record.

"ONE OF NATURE'S EIGHT WONDERS
OF THE WORLD"

I am offering for sale one-half interest in
a ten-year lease on one of the best and
safest money-making business propositions
ever offered for \$20,000. This proposition
is a lease on the Natural Tunnel and
two Caverns, and covers about 70 acres of
land. Located on the main Appalachian
highway direct from the Great Lakes through
Ky., Gate City, Va.; Kingsport and Johnson
City, Tenn., and all points South. This
place to be opened up as a tourist sightsee-
ing and summer resort; this no doubt will
be one of the most attractive and interesting
sightseeing places ever opened up to the pub-
lic in the Eastern part of the United States.
People who have traveled extensively say
there is nothing like it in the world. There
is a perpendicular solid stone wall in an
amphitheater shape over 400 feet high
through which the Natural Tunnel runs
through this mountain of solid stone; the
roof is from thirty to sixty feet high and
from sixty to one hundred feet wide. A
good size stream runs through this tunnel;
there is a stone pedestal over 700 feet high
called the Lover's Leap; an Indian girl once
leaped from the top of this place, giving it
this name. There are other historical sto-
ries connected with this marvelous hand-
work of Nature. If you are interested in
this kind of sure, safe, fair and square
money-making proposition see or write

JOSEPH P. SEATON,
304 Peachtree Street,
Johnson City, Tennessee.

BUSINESS OPPORTUNITIES

FOR SALE—Part interest in an estab-
lished wholesale Oil and Grease business to
a good salesman to act as Sales Manager.
Business established about fourteen years.
Good chance for the right man to get in
business for himself. Address THE PENN-
SYLVANIA OIL & GREASE CO., 1135
Sylvan Road, S. W., Atlanta, Ga.

COMPRESSING THIN SHELL fireproof
cement tile that's poured (cast) in heated,
patented machine (heat evaporates water)
greatly improves quality. We have com-
pressed tile, 8x12x12, weight 35 lbs., made
with various mixtures from 1-5 to 1-18,
which prove safety for load and non-load
bearing use at average cost of 5c. (The
Government used 1,000,000.) For territory
rights and machines to make 4 to 40 tile
per cast in 2 to 5 minutes, of various sizes,
write THE PAULY COMPANY, 1331 K.
N. W., Washington, D. C.

ENGINEERING INSTRUMENTS

SEVERAL HIGH-GRADE transits, slight-
ly used, and good office equipment offered,
all or part, at sacrifice prices. Address
J. G. Parker, 901 Kuhl Ave., Orlando, Fla.,
for list and prices.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources
of cities and towns. Recommendations for
industrial development made by specialists
in locating industries.

TECHNICAL SERVICE COMPANY
Woolworth Building New York City

INDUSTRIES WANTED

DO YOU WANT TO LOCATE in a live
city—1200 population. Five hundred un-
employed women within a fifteen-minute
distance. Cheap power. Good roads. Will
invest and give you a site. CHAMBER OF
COMMERCE. Ball Ground, Ga.

INDUSTRIAL PLANTS

FOR SALE—Paint mfg. plant, capacity
1500 gal. daily; an opportunity for the right
party with some experience. Address Owner,
2021 El Prado Blvd., Tampa, Fla.

WRITE FANTUS for factories anywhere.
Wonderful values in buildings or equipped
plants. Valuable industrial sites free of cost
to established industries. For America's
best buys, address Fantus Factory Locating
Service, 139 North Clark Street, Chicago.

SALE OR LEASE—Industrial site four
miles from the heart of the business section
of Washington, D. C., with steam and elec-
tric railroad sidings, 6600-volt service, two
communicating brick buildings, floor space
of approximately 12,000 square feet. Land
contains over 43,000 square feet fronting
235 feet on leading highway into Washing-
ton. Priced at about one-third the reproduc-
tion cost of buildings and land. Convenient
terms. Address J. A. CULLEN, 1407 New
York Ave. N. W., Washington, D. C.

FACTORY BUILDINGS

MODERN BRICK FACTORY BUILDING
ready for immediate occupancy. Sprinkler
system, steam heating, wired for electric
power. Within few hundred feet three trunk
line railroads. 60'x150'; 9000 square feet
of floor space. Will rent or sell. Write
BOX 289, GADSDEN, ALABAMA.

FACTORY SITES

FACTORY SITES and acreage in
Piedmont Section. Mill locations.
HUGHES T. REYNOLDS,
304 First National Bank Building,
Rome, Georgia.

FOR SALE—An unusual industrial plot,
with Hudson River water frontage and rail-
road siding. Ideal for manufacturing plant.
Forty miles from New York. Write us.
BARRETT-COX ASSOCIATES,
178 Martine Avenue,
White Plains, N. Y.

FACTORY SITES

LOCATION FOR A COTTON MILL
Raymond (Coweta County), Ga.

600 Acres, Town, 50 Houses and Build-
ings, School, Churches, Highway, 3 streams
and a 50-Acre Lake; 45 miles from Atlanta,
Six miles from Newnan; Railroads to At-
lanta and New York, to Chattanooga, Cin-
cinnati and Chicago, to Macon, Savannah
and other points. RAYMOND PROPERTIES,
P. O. Box 1443, Atlanta, Georgia.

RICHMOND, VA.—Home of Fifth District
Federal Reserve Bank. Great Tidewater
Basin of Virginia. Manufacturing center;
products distributed by 5 trunk-line rail-
roads North, South and West. Steamers to
New York, with New England connections.
Local transportation covers Richmond and
10 to 20 miles suburban. Labor plentiful
and reasonable. We can supply factories and
warehouses with or without trackage or
sites for either, large or small. Richmond
Trust Co., Real Estate Department, P. O.
Box 1555.

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ences. Best results. Promptness assured.
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724 Ninth St., N. W., Washington, D. C.

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Johnston Building, Charlotte, N. C., and
903 Grant Place N. W., Washington, D. C.

FREE "PATENT PARTICULARS"

Sterling Buck, over 21 years Registered Pa-
tent Attorney. Prompt and thorough services.
Suite M, 629 F, Washington, D. C.

SITUATIONS WANTED

POSITION WANTED—By young man
with a year's experience engineering and
machine design; 3 years sales engineering,
3 years purchasing, all with manufacturer
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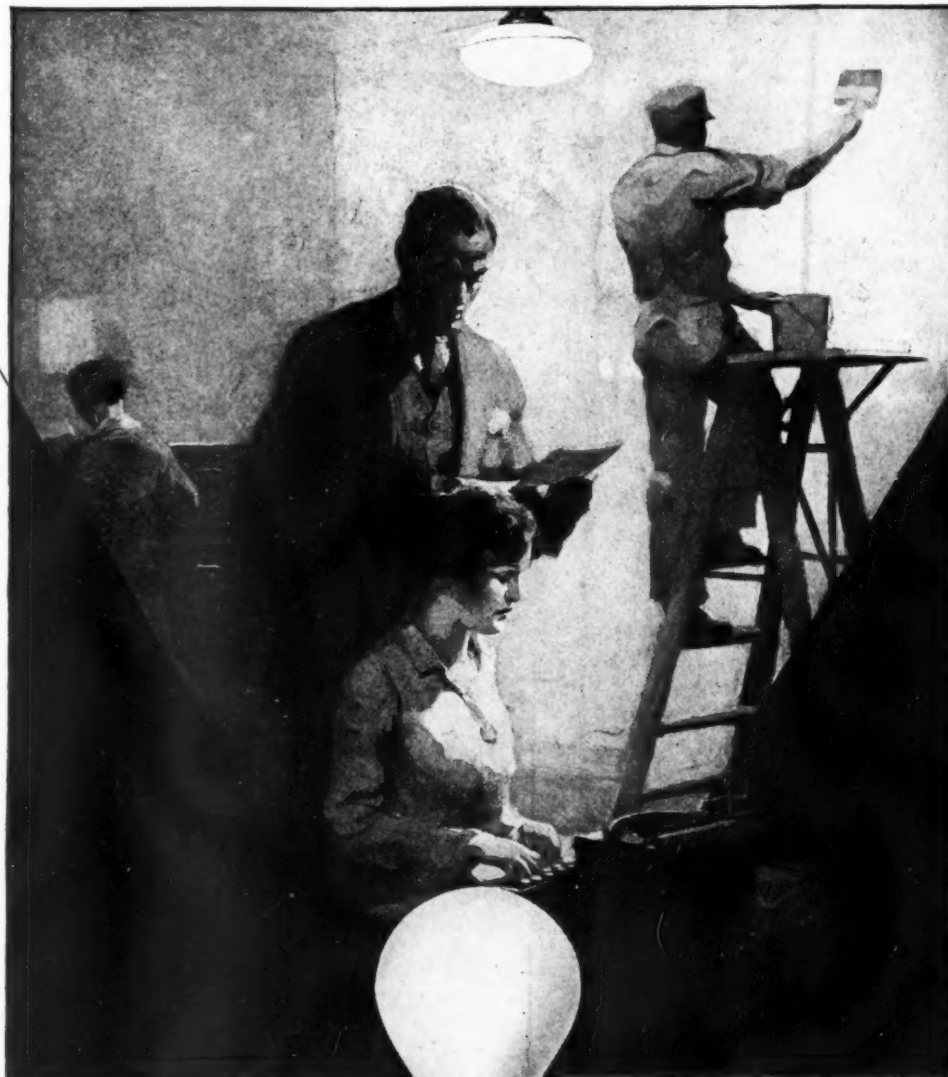
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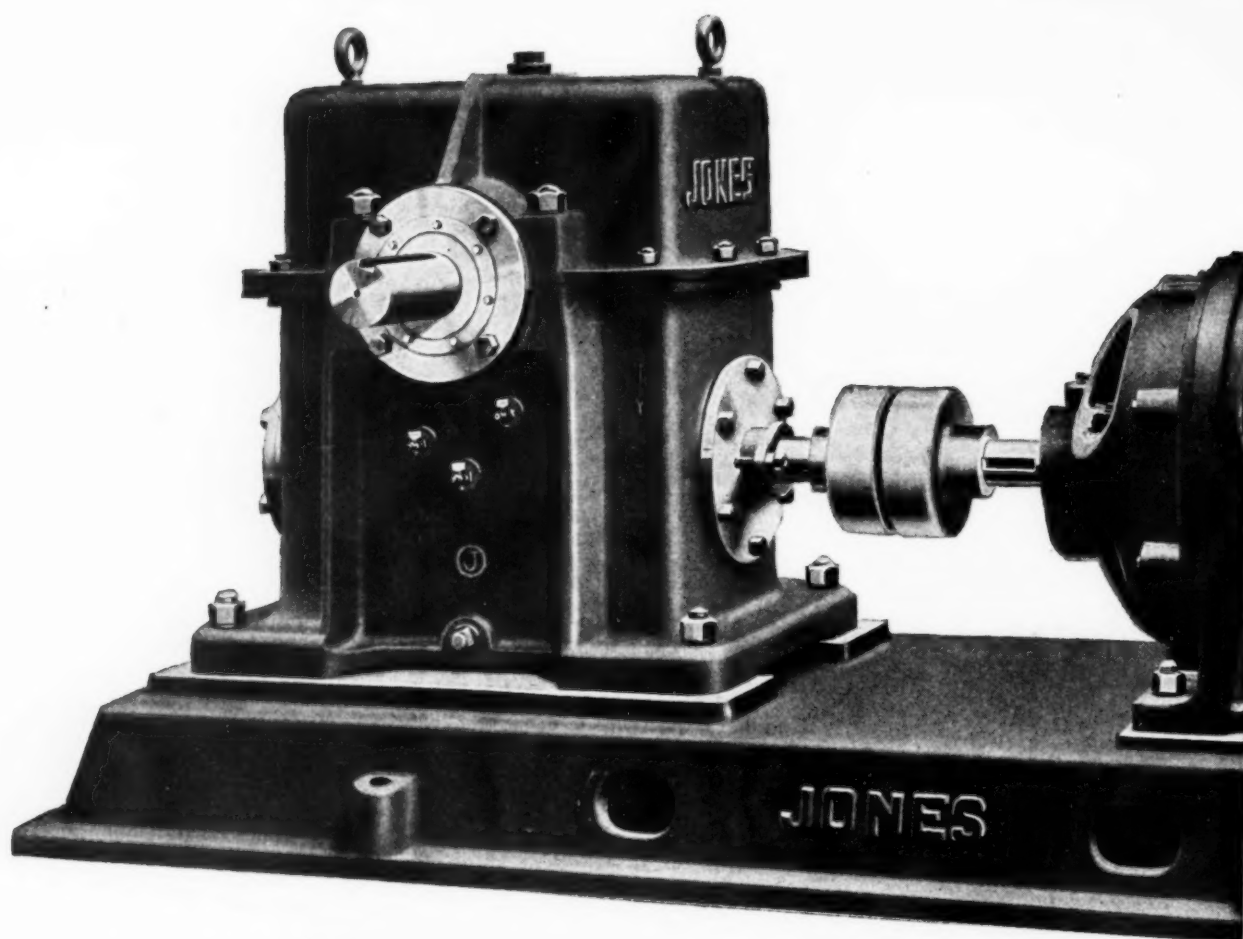
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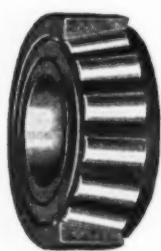
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